



**County of San Diego
Health and Human Services Agency
Emergency Medical Services**

**San Diego County
Trauma System Report**

**July 1, 2003
through
June 30, 2004**

June 2006

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Acknowledgements

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The San Diego County Trauma System emerged as a result of dedicated physicians, nurses, and system specialists within the county working to develop an environment for the careful evolution of a regional trauma system. The input from these groups generated the discussion and in-depth analysis of relevant public health policy options.

In 1982, the Hospital Council (now the Healthcare Association) of San Diego and Imperial Counties conducted a needs assessment to determine if San Diego County would benefit from a regionalized trauma system. The study represented the first comprehensive concurrent and retrospective audit of trauma care in the nation (“Trauma Needs Assessment Study” by Amherst and Associates). The findings and recommendations of the Trauma Needs Assessment Study, released in November of 1982, led to the development of a joint Hospital Council and Medical Society plan for care of major trauma victims in San Diego County.

In October 1983, with support and direction from the San Diego County Board of Supervisors, the Department of Health Services created an Ad Hoc Trauma Advisory Task Force to assist in the review and evaluation of the Hospital Council – Medical Society Trauma Plan. The advisory group of outside trauma experts conducted public hearings and informal sessions with in-hospital and prehospital trauma care providers, and synthesized the experiences of other trauma systems into a single set of recommendations for the Department and the Board of Supervisors to consider. The recommendations urged the county to adopt trauma standards that closely approximated the American College of Surgeons guidelines. The community consensus that emerged from their effort resulted in the formal adoption of their recommendations by the County Board of Supervisors in November 1983.

Once the trauma standards were adopted, the Department implemented a competitive selection process, seeking to designate five adult trauma centers and one pediatric trauma center. Designation criteria were incorporated in a Request for Proposal and the Ad Hoc Trauma Advisory Task Force became the Proposal Review Committee to evaluate and recommend hospitals for designation. Six facilities were awarded provisional designation status based on the quality of trauma services provided.

On August 1, 1984, after sixteen months of direct preparation, major trauma victims in San Diego County began bypassing community hospitals in favor of designated trauma centers.

Since its inception, the San Diego County Trauma System has responded to nearly 150,000 patients in need of trauma care, and saved untold numbers of lives.

The six trauma centers currently designated are:

- Children’s Hospital and Health Center
- Scripps Mercy Hospital
- Palomar Medical Center
- Scripps Memorial Hospital – La Jolla
- Sharp Memorial Hospital
- U.C.S.D. Medical Center

Introduction

Currently, there are five adult trauma centers serving San Diego County: Palomar Medical Center, Scripps Memorial Hospital - La Jolla, Scripps Mercy Hospital, Sharp Memorial Hospital, and UCSD Medical Center. Children's Hospital and Health Center serves as the pediatric trauma center. Since August 1984, more than 140,000 trauma patients have been admitted to San Diego County's designated trauma centers.

Traumatic injury, considered a preventable disease, represents a serious public health challenge for San Diego County. During FY 2003/04, 10,152 patients were admitted to designated trauma centers (an average of 846 patient admissions per month). The number of trauma patients increased from the previous fiscal year by two percent.

Table 1.1: Trauma Center Admissions by Fiscal Year

Fiscal Year	Trauma Center Admissions			
	Number	Monthly Average	% Change from Previous Year	Rate per 100,000 Population
1985/86	4,374	365	---	201.57
1986/87	5,466	456	25%	243.10
1987/88	6,148	512	12%	264.05
1988/89	6,379	532	4%	263.85
1989/90	6,650	554	4%	266.21
1990/91	7,036	586	6%	278.12
1991/92	7,111	593	1%	276.42
1992/93	6,460	538	-9%	249.03
1993/94	6,399	533	-1%	245.70
1994/95	6,474	540	1%	247.75
1995/96	7,516	626	16%	286.75
1996/97	7,257	605	-3%	273.50
1997/98	7,653	638	5%	283.15
1998/99	8,435	703	10%	306.62
1999/00	8,984	749	7%	319.28
2000/01	9,351	779	4%	326.54
2001/02	9,545	795	2%	326.88
2002/03	9,990	833	5%	336.16
2003/04	10,152	846	2%	336.94

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Center Monthly Reports; Population Estimates, SANDAG.

Traumatic injuries are classified as either penetrating or blunt. The number of patients admitted to county trauma facilities with penetrating injuries (mostly due to firearms and cutting/piercing injuries) increased steadily from fiscal year 1985/86 to 1992/93. Since then, the number of penetrating injuries decreased 57% to a 17-year low of 597 in FY 2001/02 before increasing by 23% for each of the two following years. The number of blunt injuries, primarily resulting from motor vehicle related injuries and falls, has continued to increase by an average of about 8% per year. Blunt injuries experienced a corresponding increase in the proportion of all traumatic injuries, from 84% during FY 1985/86 to 93% in FY 2002/03.

Table 1.2: Trauma Center Admissions by Injury Type

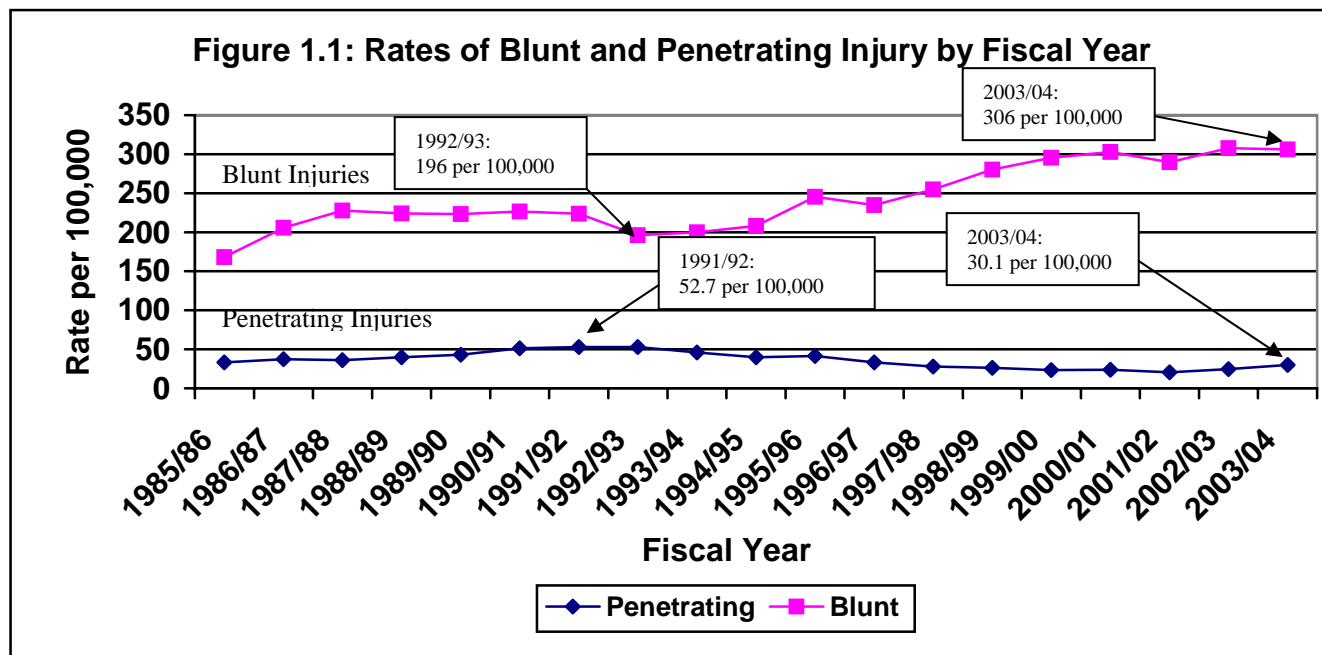
Fiscal Year	Penetrating				Blunt			
	#	%	% Change from Previous Year	Rate per 100,000 Population	#	%	% Change from Previous Year	Rate per 100,000 Population
1985/86	721	16%	---	33.55	3,653	84%	---	168.34
1986/87	841	15%	17%	37.82	4,625	85%	27%	205.70
1987/88	845	14%	<1%	36.73	5,303	86%	15%	227.76
1988/89	967	15%	14%	40.48	5,412	85%	2%	223.85
1989/90	1078	16%	11%	43.47	5,572	84%	3%	223.06
1990/91	1301	18%	21%	51.23	5,735	82%	3%	226.70
1991/92	1362	19%	5%	52.72	5,749	81%	<1%	223.48
1992/93	1375	21%	1%	52.60	5,085	79%	-12%	196.02
1993/94	1192	19%	-13%	45.18	5,207	81%	2%	199.93
1994/95	1043	16%	-13%	39.23	5,431	84%	4%	207.84
1995/96	1083	14%	4%	40.26	6,428	86%	18%	245.24
1996/97	883	12%	-18%	32.41	6,226	88%	-3%	234.64
1997/98	759	10%	-14%	27.16	6,890	90%	10%	254.92
1998/99	726	9%	-4%	25.53	7,709	91%	12%	280.23
1999/00	660	7%	-9%	22.70	8,317	93%	8%	295.58
2000/01	679	7%	3%	22.83	8,668	93%	4%	302.69
2001/02	597	7%	-12%	20.53	8,453	93%	-2%	289.49
2002/03	735	7%	23%	24.82	9,142	93%	8%	307.62
2003/04	906	9%	23%	30.07	9,246	91%	1%	306.07

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Center Monthly Reports; Population Estimates, SANDAG.

A rate is calculated as incidence per 100,000 population. Rates were calculated using January 2004 population estimates obtained from the San Diego Association of Governments (SANDAG). Rates were not calculated for categories with fewer than five occurrences.

$$\text{Rate} = \frac{\text{Incidence} \times 100,000}{\text{Population}}$$

Figure 1.1 shows the trends for blunt and penetrating trauma activations from FY 1985/86 through FY 2003/04. Since FY 1992/93, the rates of blunt and penetrating injuries seen at trauma facilities have diverged. The rate of blunt injuries increased by 56%, while the penetrating injury rate during the same time period decreased by 43%. These patterns reflect an increase in rates of injuries from falls at the same time that assault related injuries dropped substantially.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Center Monthly Reports.

Trauma Registry Data

The American College of Surgeons Committee on Trauma initiated a study which pooled data from more than 100 trauma centers nationwide. To be included, trauma patients had to meet Major Trauma Outcome Study (MTOS) criteria which reflect either the severity of the patient's injuries or the resources required to care for the patient.

Members of the San Diego County trauma system modified these criteria for the San Diego County Trauma Registry. To be entered into the registry, a trauma patient must meet one of the following: admission to the hospital for at least three days, admission to an intensive or intermediate care unit, interfacility transfer to or from an acute care hospital, or death from traumatic injuries. In January 2000, these criteria were revised to include trauma patients who had been admitted for at least 24 hours, although admission to an ICU was no longer a criterion for inclusion.

Since 1986, each of the designated trauma centers has submitted data on each trauma patient admission who met the modified MTOS criteria to the Division of EMS. These summaries contained more than 100 variables, including demographic, cause of injury, diagnostic, treatment and patient outcome data.

Of the 10,152 patients who were admitted to a trauma center during FY 2003/04, 5,854 (58%) met expanded trauma registry criteria for inclusion into the San Diego County Trauma Registry. Total trauma admissions and the number of modified MTOS patients both increased by 2% from the previous fiscal year.

Table 1.3: Total MTOS Patients and Trauma Center Admissions

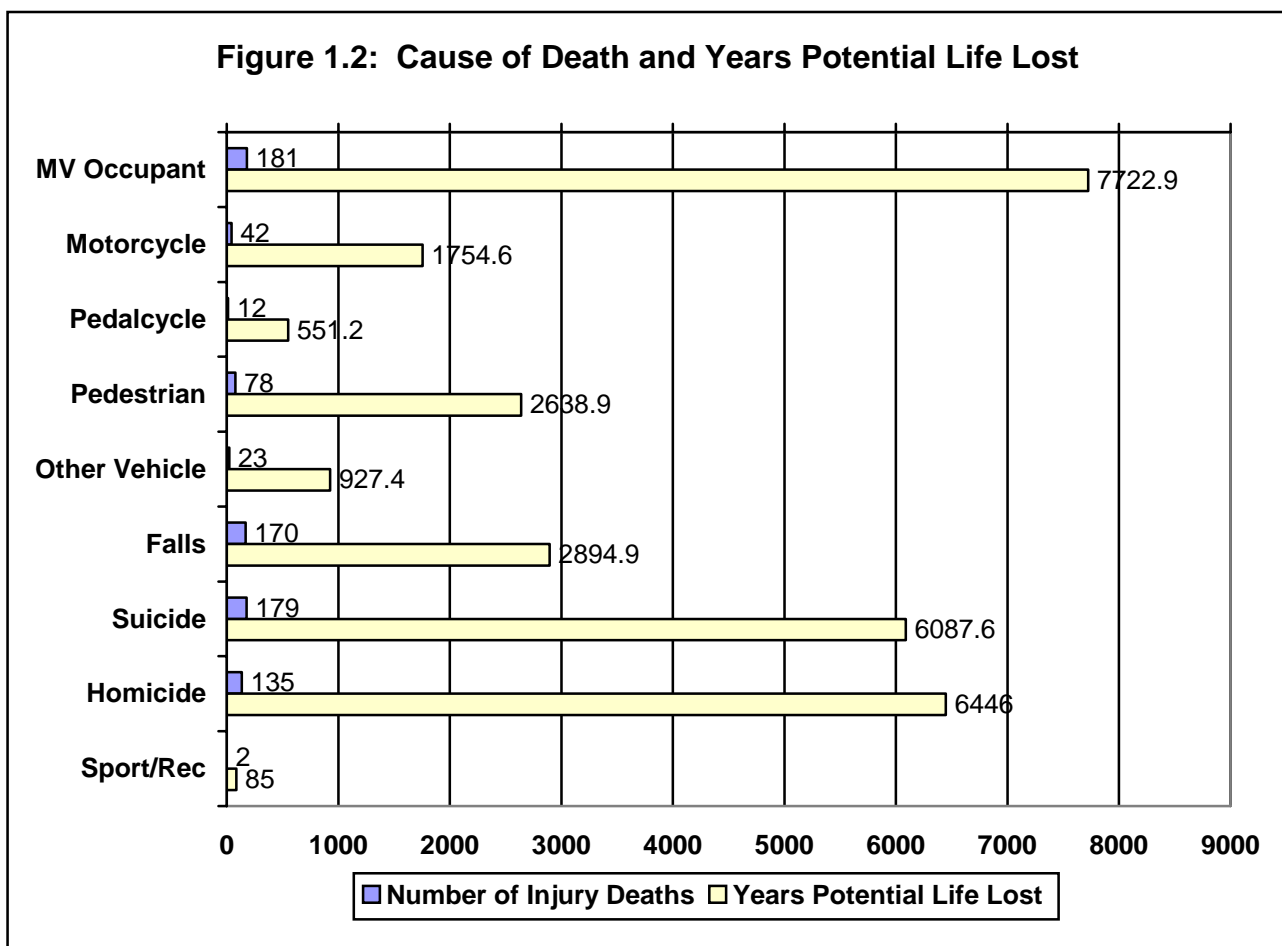
	Total Trauma Admissions	% Change from Previous Year	Modified MTOS Patients	% Change from Previous Year	MTOS Percent of Total
1991/92	7,111	---	4,645	---	65%
1992/93	6,460	-9%	4,492	-3%	70%
1993/94	6,399	-1%	4,235	-6%	66%
1994/95	6,474	1%	4,085	-4%	63%
1995/96	7,516	16%	4,250	4%	57%
1996/97	7,257	-3%	5,007	18%	69%
1997/98	7,653	5%	4,951	-1%	65%
1998/99	8,435	10%	4,995	1%	59%
1999/00	8,984	7%	5,093	2%	57%
2000/01	9,351	4%	5,169	1%	55%
2001/02	9,545	2%	5,307	3%	56%
2002/03	9,990	5%	5,739	8%	57%
2003/04	10,152	2%	5,854	2%	57%
Total	105,395	---	63,822	---	61%

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Trauma Center Monthly Reports.

Years of Potential Life Lost (YPLL) calculates the years of life lost due to a death using the average life expectancy as an estimate for the total length of life. Life expectancy was derived from the Vital Statistics Life Tables (Centers for Disease Control and Prevention). For age groups, YPLL was calculated using the life expectancy for the median age for the group.

$$\text{YPLL} = (\text{Expected years of life} - \text{median age}) \times \text{Number of deaths}$$

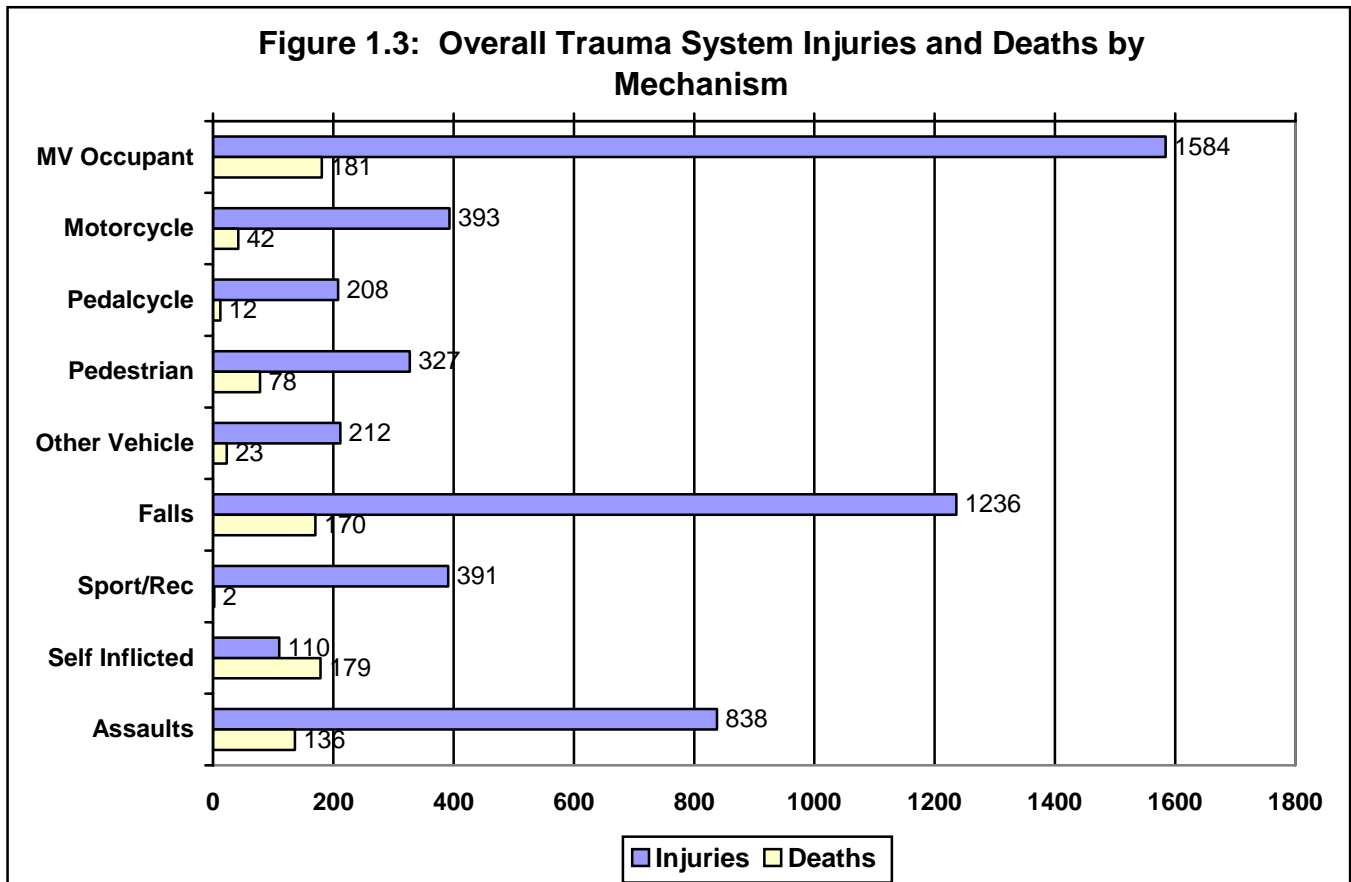
Among traumatic deaths, motor vehicle occupant crashes were the leading cause of death (181) and years potential life lost (7,723). Suicide was the second highest cause of trauma related mortality (179), while homicide accounted for the second highest number of YPLL (6,446).



Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04
 Life table data obtained from Arias E. United States Life Tables, 2002. National Vital Statistics Reports; Vol. 53, No. 6. Hyattsville, Maryland: National Center for Health Statistics.

Current Overview of Traumatic Injury in San Diego County

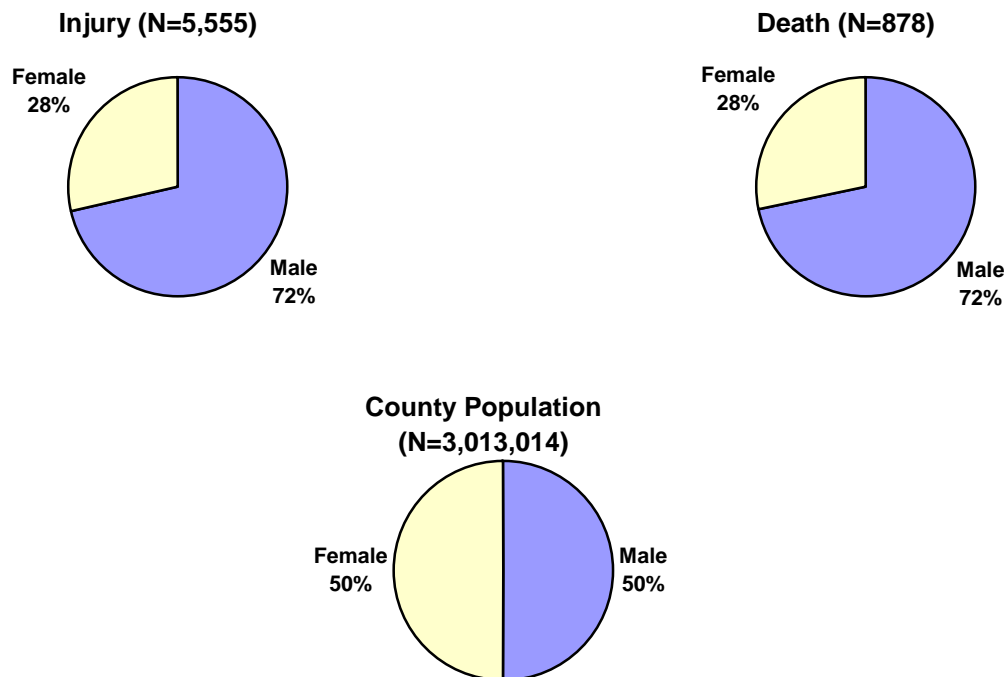
During FY 2003/04, 878 lives were lost in San Diego County due to traumatic injury. On the average, for every person who died as the result of a traumatic injury, six more were seriously injured. Figure 1.3 breaks out deaths and injuries by mechanism. The three leading causes of traumatic injury were motor vehicle occupant crashes, falls and assaults. The leading causes of traumatic death were motor vehicle occupant crashes, suicide, and falls.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Although males make up half the county's population, they accounted for 72% of all serious injuries and deaths from trauma.

Figure 1.4: Comparison of County Population to Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04. Population estimates, SANDAG.

Patterns of injury were evident by gender. Males accounted for 72% of nonfatal injuries, and were especially highly represented in assaults (91%), motorcycle crashes (90%), and pedalcycle crashes (84%). Motor vehicle occupant crashes and falls were the leading causes of injury for both males and females.

Table 1.4: Trauma System Injuries by Mechanism and Gender

	Male	Female	Total
Vehicle Related	1,808	916	2,724
<i>MV Occupant</i>	895	689	1,584
<i>Motorcycle</i>	355	38	393
<i>Pedalcycle</i>	175	33	208
<i>Pedestrian</i>	217	110	327
<i>Other Vehicle</i>	166	46	212
Falls	821	415	1,236
Sports/Recreation	303	88	391
Overall Violence	835	113	948
<i>Self Inflicted</i>	76	34	110
<i>Assault</i>	759	79	838
Other	192	48	240
Unknown	13	3	16
Total	3,972	1,583	5,555

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04.

Males made up the majority of traumatic deaths regardless of cause of injury. Motor vehicle occupant crashes were the leading cause of traumatic death for both men and women.

Table 1.5: Trauma System Deaths by Mechanism and Gender

	Male	Female	Total
Vehicle Related	239	97	336
<i>MV Occupant</i>	119	62	181
<i>Motorcycle</i>	37	5	42
<i>Pedalcycle</i>	11	1	12
<i>Pedestrian</i>	55	23	78
<i>Other Vehicle</i>	17	6	23
Falls	100	70	170
Sports/Recreation	2	0	2
Overall Violence	246	69	315
<i>Suicide</i>	147	32	179
<i>Homicide</i>	99	37	136
Other	37	10	47
Unknown	5	3	8
Total	629	249	878

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04.

Table 1.6 includes both the mean and median ages¹ by mechanism of injury for both injuries and deaths. As this table shows, different mechanisms have distinct age distributions. Sports and recreation injuries had the youngest age distribution (median=24, mean=28 years), while falls had the oldest patients overall. Half of all those who died from falls were older than 79 years. Those who died were older, on average, than those who survived for all mechanisms.

Table 1.6: Mean and Median Age by Mechanism of Injury and Outcome

	Survived			Expired		
	Count	Median Age	Mean Age	Count	Median Age	Mean Age
Vehicle Related	2,724	33	36	336	40	42
<i>MV Occupant</i>	1,584	31	36	181	34	40
<i>Motorcycle</i>	393	33	35	42	38	40
<i>Pedalcycle</i>	208	29	30	12	38	36
<i>Pedestrian</i>	327	38	38	78	49	50
<i>Other Vehicle</i>	212	36	38	23	39	42
Falls	1,235	52	51	170	79	72
Sport/Rec	391	24	28	2	42	42
Overall Violence	948	26	30	314	40	43
<i>Self Inflicted/Suicide</i>	110	31	35	179	47	50
<i>Assault/Homicide</i>	838	26	30	135	27	34
Other	240	34	34	46	46	44
Unknown	16	32	34	8	46	52
Total	5,554	34	38	876	46	49

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04.

Note: Age was unknown for one injury and two deaths.

¹ The mean is the average age. The median is the middle age when all of the ages are put into numerical order. In the event of an abnormally high or low age (an outlier), the median age is not as likely to be influenced as the mean age.

Traumatic injury disproportionately affects persons between the ages of 15 and 34 years. This age range accounted for 40% of all severe injuries, including 64% of assaults, 58% of self-inflicted injuries, 49% of motorcycle injuries, and 47% of motor vehicle occupant injuries. The ten-year age group with the highest incidence of severe injuries was the 15-24 year olds, accounting for 25% of non-fatal traumatic injuries.

Appendix A lists the leading causes of severe injury and death by age group and Appendix C lists county population by age group.

Table 1.7: Trauma System Injuries by Mechanism and Age Group in Years

	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Unkn	Total
Vehicle Related	43	82	124	312	446	423	447	364	225	118	108	32	0	2,724
<i>MV Occupant</i>	21	33	46	222	307	221	247	183	129	76	77	22	0	1,584
<i>Motorcycle</i>	2	4	10	30	77	86	71	75	31	4	2	1	0	393
<i>Pedalcycle</i>	1	23	42	15	13	25	39	27	18	4	0	1	0	208
<i>Pedestrian</i>	17	18	24	26	25	40	46	46	34	30	17	4	0	327
<i>Other Vehicle</i>	2	4	2	19	24	51	44	33	13	4	12	4	0	212
Falls	89	38	21	44	61	103	133	166	124	135	205	116	1	1,236
Sports/Recreation	16	31	61	43	48	65	55	51	14	5	1	1	0	391
Overall Violence	26	3	10	153	215	235	160	93	36	6	9	2	0	948
<i>Self Inflicted</i>	0	0	0	10	18	36	21	16	3	2	3	1	0	110
<i>Assault</i>	26	3	10	143	197	199	139	77	33	4	6	1	0	838
Other	19	6	6	21	27	44	52	43	9	6	4	3	0	240
Unknown	0	1	2	0	4	2	4	1	0	2	0	0	0	16
Total	193	161	224	573	801	872	851	718	408	272	327	154	1	5,555

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04.

The ten-year age group with the highest number of traumatic deaths was 15-24, with 19%. This age group made up 33% of all motor vehicle occupant deaths, and 37% of homicide victims.

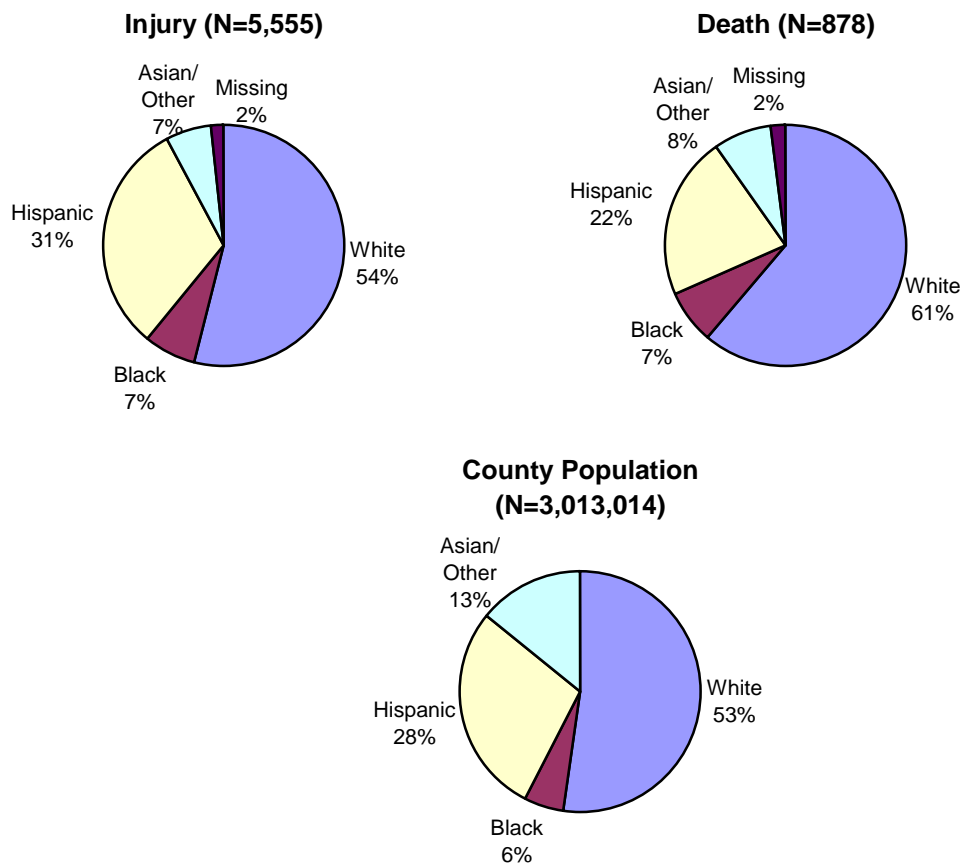
Table 1.8: Trauma System Deaths by Mechanism and Age Group in Years

	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Unkn	Total
Vehicle Related	6	2	3	32	54	43	56	48	38	18	19	17	0	336
<i>MV Occupant</i>	2	1	2	25	34	29	24	21	12	11	11	9	0	181
<i>Motorcycle</i>	0	0	0	1	9	6	9	9	7	1	0	0	0	42
<i>Pedalcycle</i>	0	1	1	1	1	1	3	2	2	0	0	0	0	12
<i>Pedestrian</i>	2	0	0	5	6	5	15	15	10	6	7	7	0	78
<i>Other Vehicle</i>	2	0	0	0	4	2	5	1	7	0	1	1	0	23
Falls	1	0	1	0	2	5	9	18	13	17	66	38	0	170
Sports/Recreation	0	0	0	1	0	0	0	0	1	0	0	0	0	2
Overall Violence	2	0	2	31	43	57	47	53	20	25	21	13	1	315
<i>Self Inflicted</i>	0	0	0	7	17	27	30	32	17	20	17	12	0	179
<i>Assault</i>	2	0	2	24	26	30	17	21	3	5	4	1	1	136
Other	3	0	0	0	5	8	6	10	5	5	2	2	1	47
Unknown	0	0	0	1	1	1	1	1	0	0	1	2	0	8
Total	12	2	6	65	105	114	119	130	77	65	109	72	2	878

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04.

The relative distribution of traumatic injuries and deaths by race/ethnicity was comparable to the overall county population makeup. Whites comprised a higher proportion of deaths than would be estimated from the population distribution.

Figure 1.5: Comparison of County Population to Injuries and Deaths By Race/Ethnicity



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04. Population estimates, SANDAG

The White population made up 53% of the overall county population, but made up a larger proportion of injuries and deaths from motorcycle crashes (74% of injuries, 76% of deaths), falls (63% of injuries, 78% of deaths), and self inflicted injuries (52% of injuries, 83% of deaths). Blacks, with 5% of the total population, were more severely impacted by assaults (15% of injuries, 19% of deaths).

Table 1.9: Trauma System Injuries by Mechanism and Race/Ethnicity

	White	Black	Hispanic	Asian/Other	Missing	Total
Vehicle Related	1,474	181	832	191	46	2,724
<i>MV Occupant</i>	773	112	548	121	30	1,584
<i>Motorcycle</i>	290	23	56	20	4	393
<i>Pedalcycle</i>	129	8	58	8	5	208
<i>Pedestrian</i>	145	25	121	33	3	327
<i>Other Vehicle</i>	137	13	49	9	4	212
Falls	785	40	320	69	22	1,236
Sports/Recreation	271	5	86	21	8	391
Overall Violence	328	139	415	50	16	948
<i>Self Inflicted</i>	57	11	30	10	2	110
<i>Assault</i>	271	128	385	40	14	838
Other	129	17	84	8	2	240
Unknown	9	1	5	1	0	16
Total	2,996	383	1,742	340	94	5,555

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04.

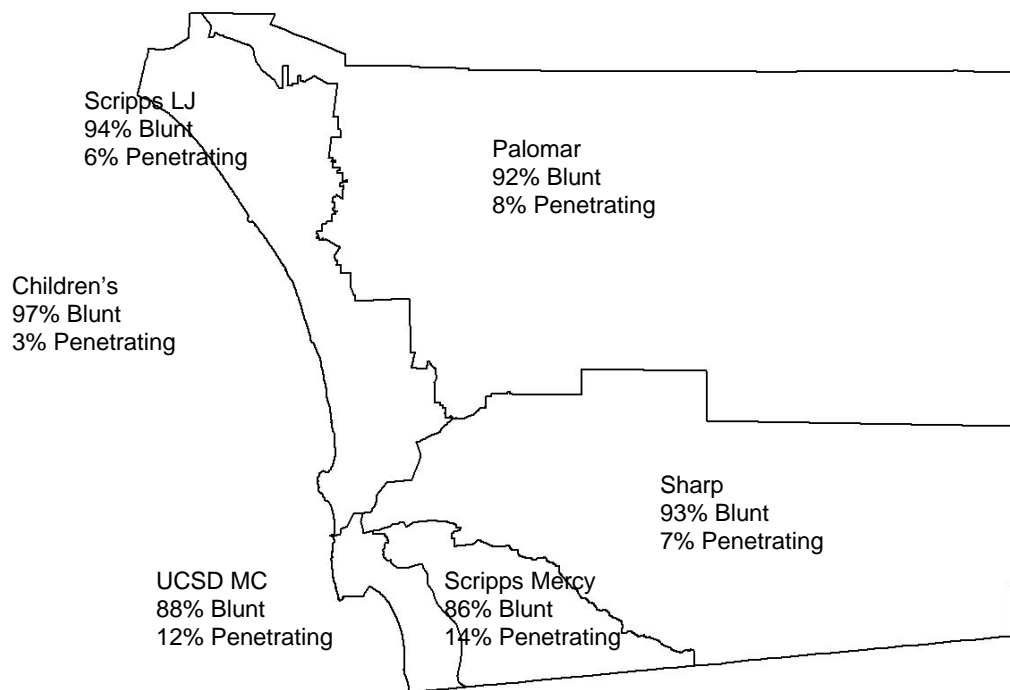
Table 1.10: Trauma System Deaths by Mechanism and Race/Ethnicity

	White	Black	Hispanic	Asian/Other	Missing	Total
Vehicle Related	184	22	90	34	6	336
<i>MV Occupant</i>	95	11	49	22	4	181
<i>Motorcycle</i>	32	3	5	1	1	42
<i>Pedalcycle</i>	9	0	2	1	0	12
<i>Pedestrian</i>	33	5	29	10	1	78
<i>Other Vehicle</i>	15	3	5	0	0	23
Falls	132	3	22	9	4	170
Sports/Recreation	1	0	1	0	0	2
Overall Violence	191	32	63	24	5	315
<i>Suicide</i>	148	6	11	12	2	179
<i>Homicide</i>	43	26	52	12	3	136
Other	23	4	17	0	3	47
Unknown	5	2	1	0	0	8
Total	536	63	194	67	18	878

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04.

Among patients seen at trauma facilities, 91% of injuries were blunt in nature (e.g., motor vehicle related, falls, or assaults with a blunt object). Ninety-seven percent of Children's Hospital and Health Center's trauma patients sustained blunt injuries. Scripps Mercy Hospital and UCSD Medical Center received the highest percentages of penetrating injuries among each facility's trauma patients (14% and 12% of trauma patients at Scripps Mercy and UCSD, respectively). Penetrating injuries include stabs and gunshot wounds.

Figure 1.6: Distribution of Trauma Center Patients by Hospital and Injury Type



Source: San Diego County Trauma Center Monthly Reports, FY 2003/04.

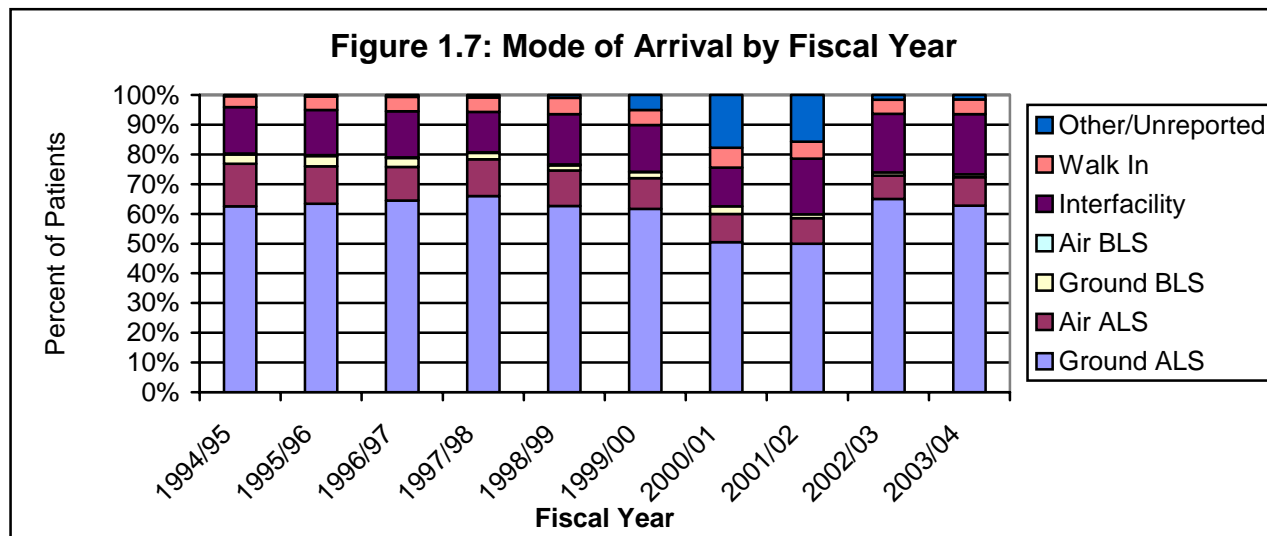
Trauma System Resources

During fiscal year 2003/04, San Diego County had 21 civilian and two military emergency departments. The 21 civilian hospitals included eight base hospitals, five adult trauma centers, and one pediatric trauma center. The prehospital setting consisted of 21 ground transport agencies equipped to deliver advanced life support (ALS) services, two air transport agencies, and 33 basic life support (BLS) agencies. Sixty three percent of trauma patients were reported to have been transported to trauma centers by ground ALS ambulance units.

Table 1.11: Trauma Patient Mode of Arrival

Transport Mode	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04
Ground ALS	2,553	2,694	2,740	3,268	3,128	3,143	2,610	2,652	3,730	3,675
Air ALS	587	535	484	611	598	525	488	453	450	558
Ground BLS	129	149	126	107	87	106	134	71	61	59
Air BLS	12	11	9	12	15	5	0	0	1	1
Interfacility	637	646	660	668	843	796	672	996	1,132	1,184
Walk In	148	193	206	241	274	261	349	302	273	290
Other/Unreported	19	22	28	44	50	257	916	833	92	87
Total	4,085	4,250	4,253	4,951	4,995	5,093	5,169	5,307	5,739	5,854

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 1994/95 - 2003/04.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 1994/95 - 2003/04.

The mean time spent on scene with a trauma patient prior to transport was 15 minutes during fiscal year 2003/04, and ranged from 14 minutes for Air Advanced Life Support (ALS) to 25 minutes for ground BLS ambulance units. Prolonged scene times can be attributed to the type of call, complicated extrication procedures, road conditions, and difficulty accessing patients.

Table 1.12: Mean Scene Time, in Minutes, by Mode of Arrival

Year	Ground ALS		Air ALS		Ground BLS		Air BLS		Overall	
	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean
1993/94	0-121	15	1-99	31	1-85	17	38-150	48	0-150	18
1994/95	0-218	15	4-120	26	1-71	21	5-26	16	0-218	17
1995/96	0-107	15	5-120	22	1-83	20	20-36	29	0-120	16
1996/97	1-72	16	1-71	21	6-59	19	*	*	1-72	17
1997/98	1-336	18	5-110	25	4-33	17	8-24	14	1-336	19
1998/99	0-88	18	4-123	24	5-52	20	10-24	15	0-123	19
1999/00	0-86	18	2-145	22	5-45	18	11-22	16	0-145	19
2000/01	0-113	18	0-66	19	22-37	21	*	*	0-113	20
2001/02	0-55	23	0-273	16	12-28	20	*	*	0-273	17
2002/03	0-110	17	0-85	16	9-25	15	*	*	0-110	16
2003/04	0-195	15	3-102	14	9-98	25	*	*	0-195	15

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry, FYs 1993/94-2003/04.

Note: Scene times were not reported for all eligible incidents.

*Insufficient data to calculate range and mean

Trauma Patient Outcomes

Please note that the following section only includes patients who were admitted to designated trauma centers and does not include patients who died at a non-trauma center or on scene. Of the trauma patients who were admitted to designated trauma centers, 95% survived.

The severity of a trauma patient's injuries is given by the Injury Severity Score (ISS), which is a measure of the three most severely injured body regions, and increases in relation to the severity of the injuries. Trauma patients with an ISS of less than 15 have an approximate 99% survival rate in San Diego County. As shown in the table below, as a patient's ISS increases to 15 or more, the survival rate from injuries decreases to 84%. Over time, the survival percentage for patients with ISS 15 or greater has increased from 77.6% in FY 1992/93 to 83.8% in 2003/04.

Table 1.13: Trauma Patient Outcomes by Injury Severity Score

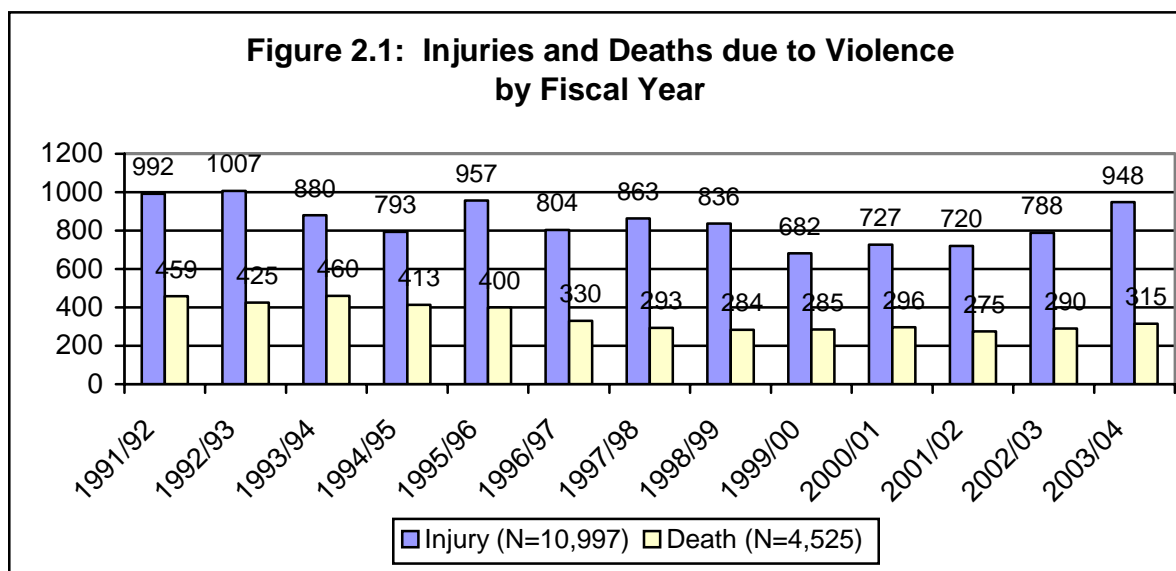
Fiscal Year	Injury Severity Score					
	<9		9-14		15+	
	Survived (%)	Expired (%)	Survived (%)	Expired (%)	Survived (%)	Expired (%)
1992/93	1,895 (99.80%)	4 (0.20%)	1,296 (99.30%)	9 (0.70%)	1,000 (77.60%)	288 (22.30%)
1993/94	1,721 (99.70%)	5 (0.30%)	1,239 (98.80%)	14 (1.20%)	986 (78.50%)	270 (21.40%)
1994/95	1,598 (99.70%)	4 (0.30%)	1,236 (99.50%)	5 (0.50%)	944 (76.00%)	298 (24.00%)
1995/96	1,851 (99.99%)	1 (0.01%)	1,321 (99.40%)	8 (0.60%)	1,072 (80.54%)	259 (19.46%)
1996/97	1,959 (99.70%)	5 (0.30%)	1,362 (99.80%)	3 (0.20%)	932 (80.00%)	233 (20.00%)
1997/98	2,297 (99.78%)	5 (0.21%)	1,381 (99.42%)	8 (0.58%)	977 (81.01%)	229 (18.99%)
1998/99	2,301 (99.57%)	10 (0.21%)	1,392 (99.00%)	14 (1.00%)	1,057 (82.71%)	221 (17.29%)
1999/00	2,329 (99.53%)	11 (0.47%)	1,503 (99.40%)	9 (0.60%)	954 (82.81%)	198 (17.19%)
2000/01	2,171 (99.31%)	15 (0.69%)	1,634 (99.15%)	14 (0.85%)	1,038 (80.65%)	249 (19.35%)
2001/02	2,265 (99.34%)	15 (0.66%)	1,633 (98.97%)	17 (1.03%)	1,114 (83.20%)	225 (16.80%)
2002/03	2,296 (99.48%)	12 (0.52%)	1,860 (99.04%)	18 (0.96%)	1,254 (82.61%)	264 (17.39%)
2003/04	2,179 (99.36%)	14 (0.64%)	1,997 (99.11%)	18 (0.89%)	1,374 (83.78%)	266 (16.22%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry: FY 1992/93 to 2003/04.

The Injury Severity Score (ISS) is a modification of the Abbreviated Injury Scale (AIS) developed to deal with multiple injuries. The ISS incorporates the AIS scores for the most significant injuries in three different body regions. The ISS is calculated by summing the squares of the AIS scores for these injuries. AIS scores up to five are squared, so that the maximum ISS is 75. An AIS score of 6 in any body region is an automatic ISS of 75.

Violent Injuries

Violence that results in injury can be interpersonal (assault, homicide, legal intervention) or self-inflicted (self-inflicted injury or suicide). From FY 1991/92 through 2003/04 there were more than nine times as many interpersonal-related non-fatal injuries as self-inflicted non-fatal injuries, but the majority of fatal violent injuries were self-inflicted. The number of non-fatal injuries due to violence (both assault and self-inflicted) decreased by 32% from FY 1992/93 to 1999/00, but increased by 39% over the next four years. The number of deaths from violent trauma also decreased by 32% from FY 1992/93 to 1999/00, but only increased by 11% from FY 1999/00 to 2003/04.

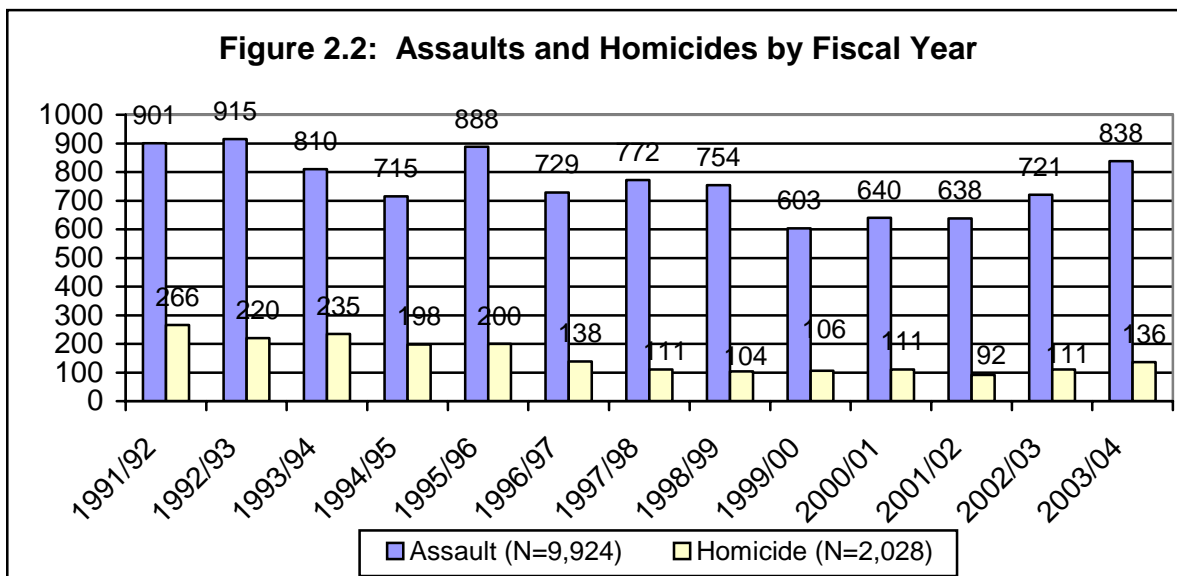


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2003/04

Homicide and Assault

Homicide was the fourth leading cause of traumatic death and accounted for the second greatest number of years of potential life lost during FY 2003/04. For every homicide, there were 6.2 nonfatal severe assaults.

Nonfatal injuries from traumatic assaults decreased by 33% from FY 1991/92 to 1999/00, but this number has increased to its highest point in the last eight years during FY 2003/04. Homicides have remained low in comparison to the early 90's, although this number has also been increasing in recent years.

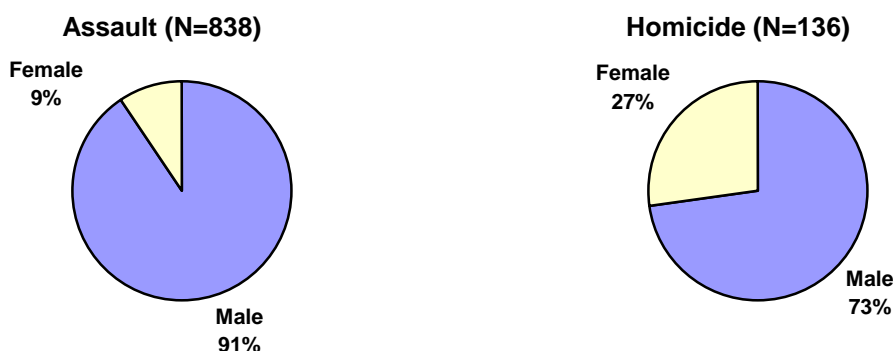


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2003/04

Males were disproportionately affected by interpersonal violence, with 91% of nonfatal injuries from assaults and 73% of homicides.

The age- and gender-specific assault and homicide rates show that males 20-24 years of age were at highest risk for both assault injuries (141 per 100,000) and homicide (17 per 100,000). The highest-risk age group for females was 15 to 19 years, with an assault rate of 9.3 per 100,000.

Figure 2.3: Assaults and Homicides by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04.

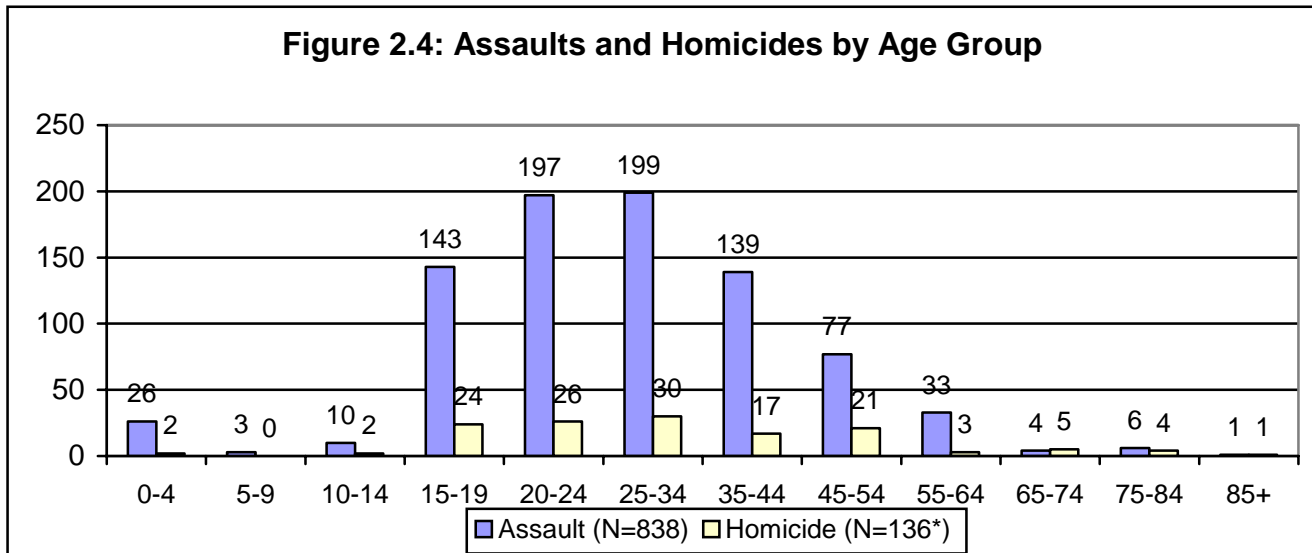
Table 2.1: Number and Rate (per 100,000) of Assault and Homicide by Age Group and Gender

	Assault						Homicide						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	16	14.89	10	9.22	26	12.04	0	-	2	*	2	*	28	12.97
5-9	3	*	0	-	3	*	0	-	0	-	0	-	3	*
10-14	9	8.01	1	*	10	4.52	2	*	0	-	2	*	12	5.43
15-19	133	112.48	10	9.31	143	63.37	17	14.38	7	6.52	24	10.64	167	74.01
20-24	188	140.83	9	8.54	197	82.48	23	17.23	3	*	26	10.89	223	93.36
25-34	185	76.64	14	6.22	199	42.66	19	7.87	11	4.89	30	6.43	229	49.09
35-44	127	54.61	12	5.19	139	29.97	13	5.59	4	*	17	3.67	156	33.63
45-54	66	33.76	11	5.39	77	19.28	17	8.69	4	*	21	5.26	98	24.53
55-64	27	22.28	6	4.54	33	13.02	3	*	0	-	3	*	36	14.21
65-74	2	*	2	*	4	*	3	*	2	*	5	3.12	9	5.61
75-84	3	*	3	*	6	4.86	2	*	2	*	4	*	10	8.09
85+	0	-	1	*	1	*	0	-	1	*	1	*	2	*
Unknown	0	-	0	-	0	-	0	-	1	*	1	*	1	*
Total	759	50.51	79	5.23	838	21.94	99	6.59	37	2.45	136	4.51	974	32.33

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04; Population estimates, SANDAG

*Rates not calculated on less than five incidents

Figure 2.4 shows the age distribution of assault and homicide. Violent interpersonal injuries cluster strongly in teenagers and young adults, with persons aged 15-34 years sustaining 64% of assaults and 59% of homicides.

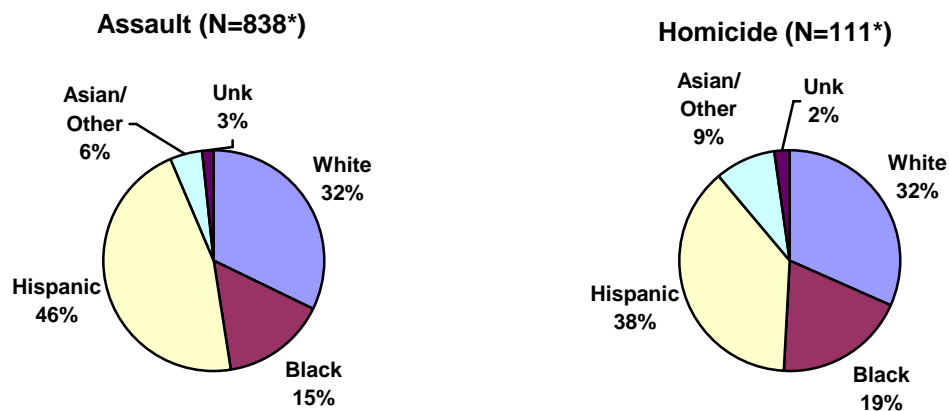


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

*Totals include one homicide with unspecified age

The Black population was most over represented among assault and homicide victims. In spite of making up only six percent of the county population, 15% of assaults and 19% of homicide victims were Black.

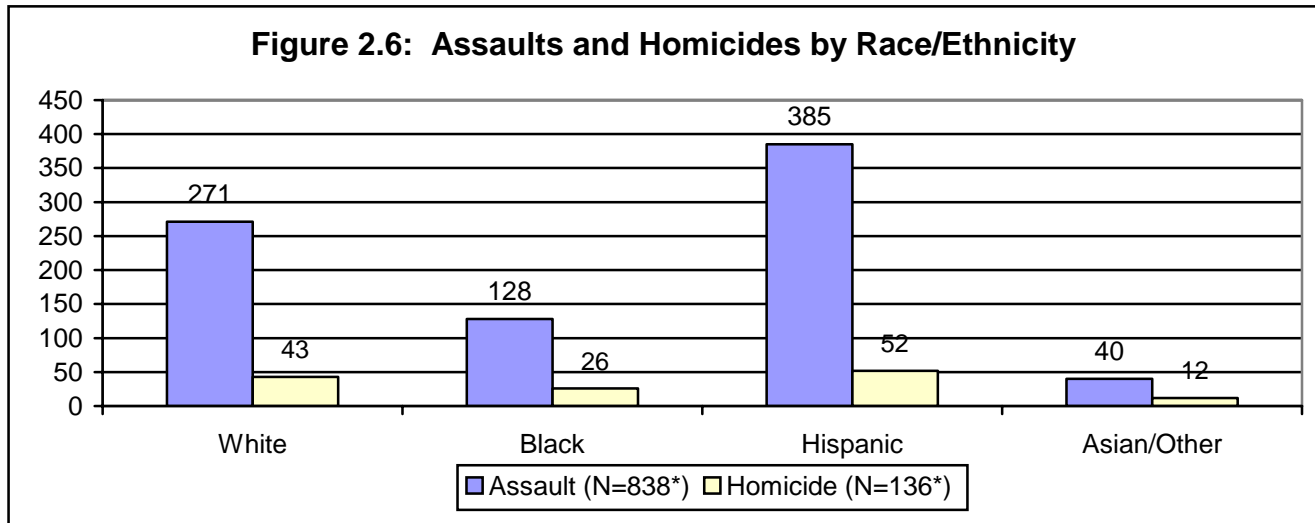
Figure 2.5: Assaults and Homicides by Race/Ethnicity



*Totals include 14 assaults and 3 homicides with unspecified race/ethnicity

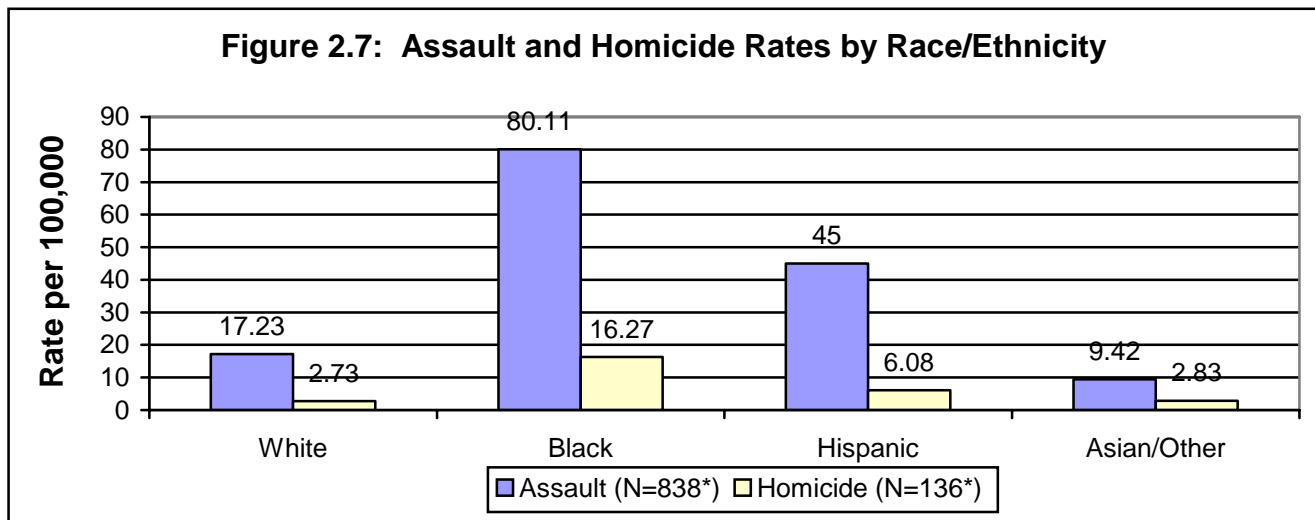
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Figure 2.6 shows the number of assaults and homicides by race/ethnicity, while figure 2.7 illustrates the rate per 100,000 population. As these figures show, the highest number of assaults and homicides are seen among the White and Hispanic populations. The rates shown in figure 2.7, however, show that the Black population is at the highest risk of injury and death from assault.



*Totals include 14 assaults and 3 homicides with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

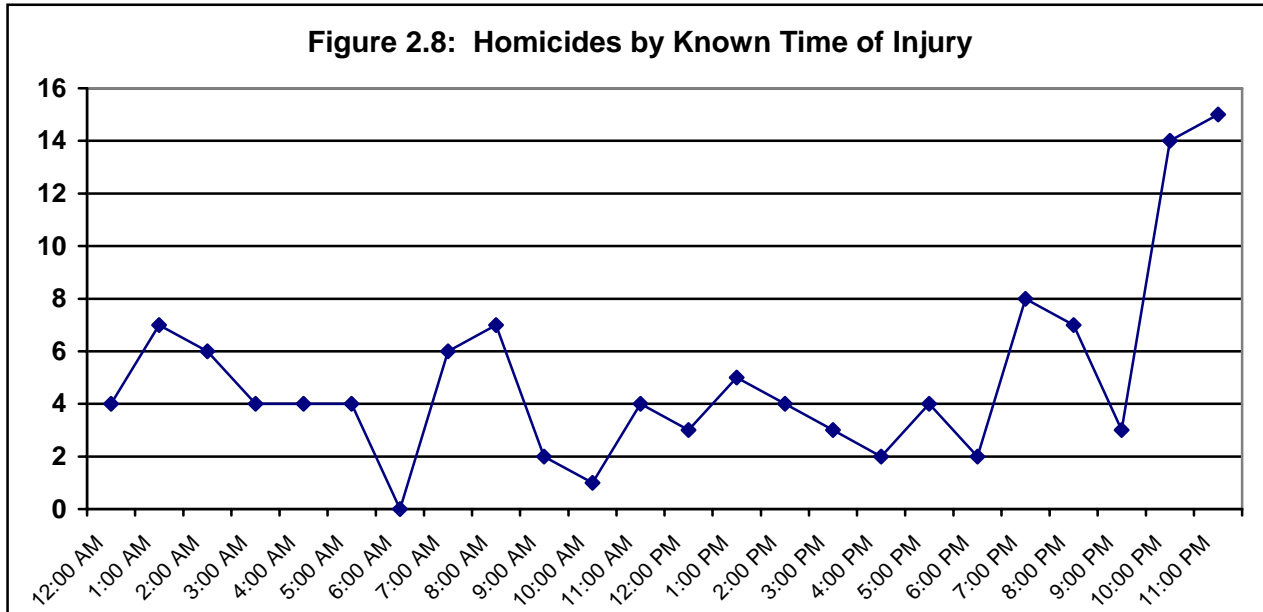


*Totals include 14 assaults and 3 homicides with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Homicides were most common in the evening hours, with more than half of incidents occurring between the hours of 7:00 p.m. and 3:00 a.m. The nocturnal demand on trauma facilities is shown in figure 2.9, which shows that 52% of assault-related trauma patients arrived between 8:00 p.m. and 3:00 a.m.

Figure 2.8: Homicides by Known Time of Injury

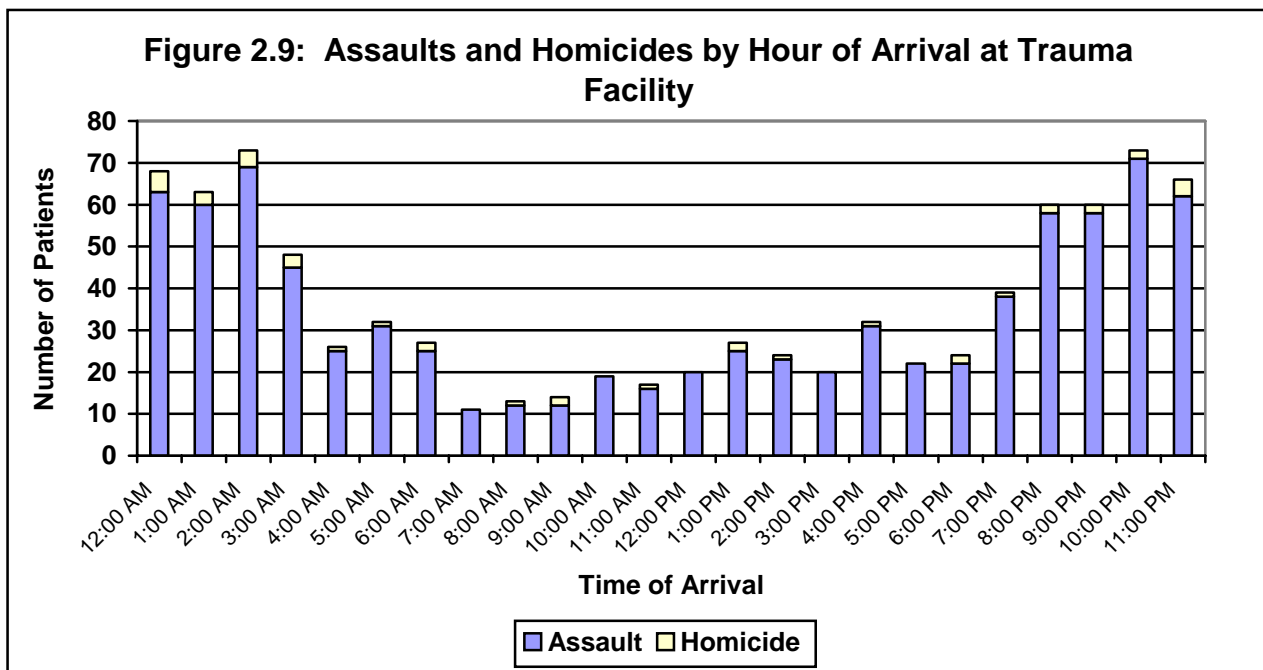


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

There were 17 homicides with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2003/04

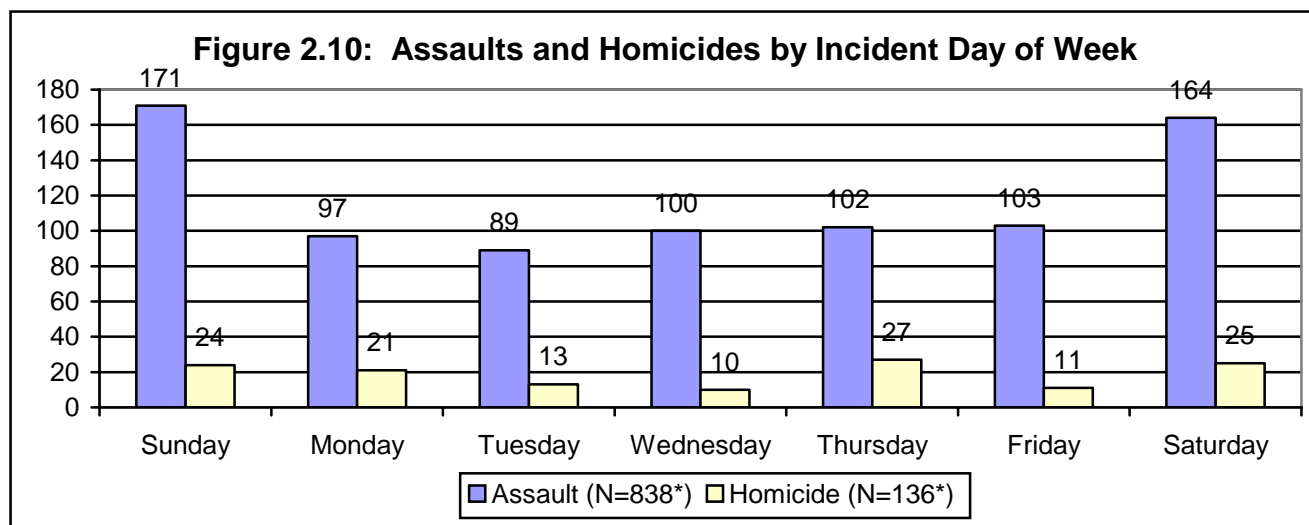
Figure 2.9: Assaults and Homicides by Hour of Arrival at Trauma Facility



All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

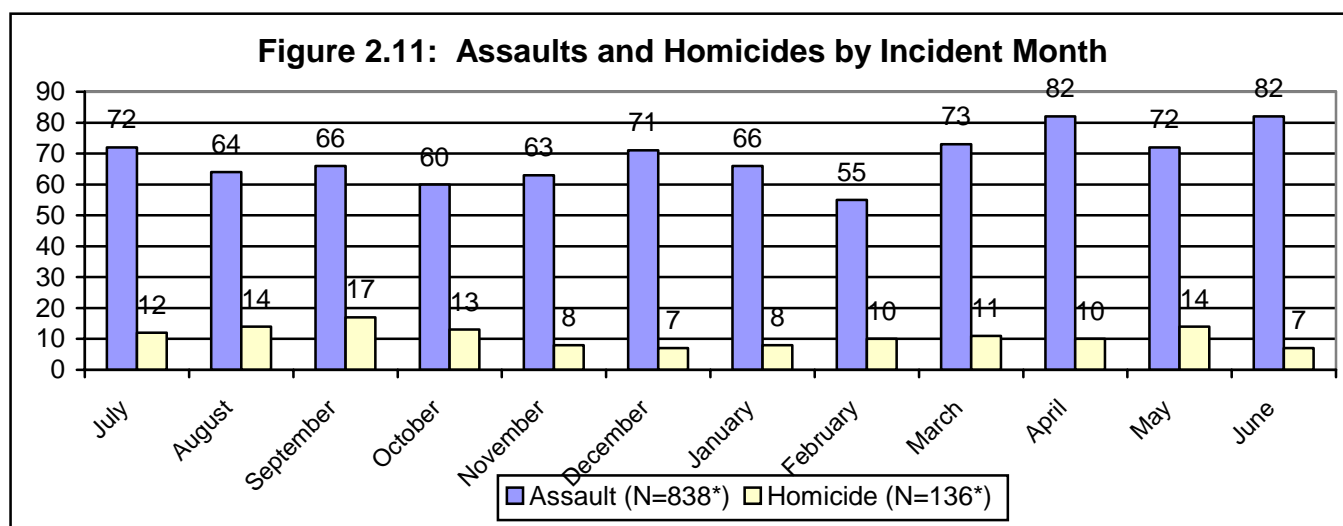
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Weekends saw the highest number of assaults and homicides, with 40% of assaults and 36% of homicides taking place on Saturdays and Sundays. The highest number of assaults occurred in April (82), while September 2003 had the greatest number of homicides (17).



*Totals include 12 assaults and five homicides with unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

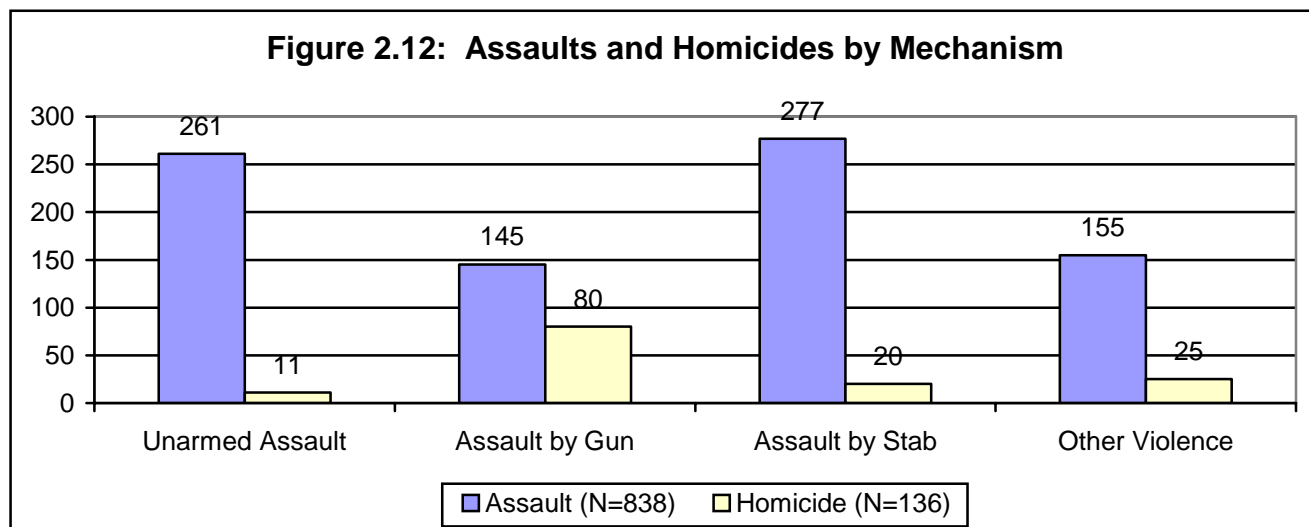


*Totals include 12 assaults and five homicides with unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Note: includes incidents occurring prior to July 2003

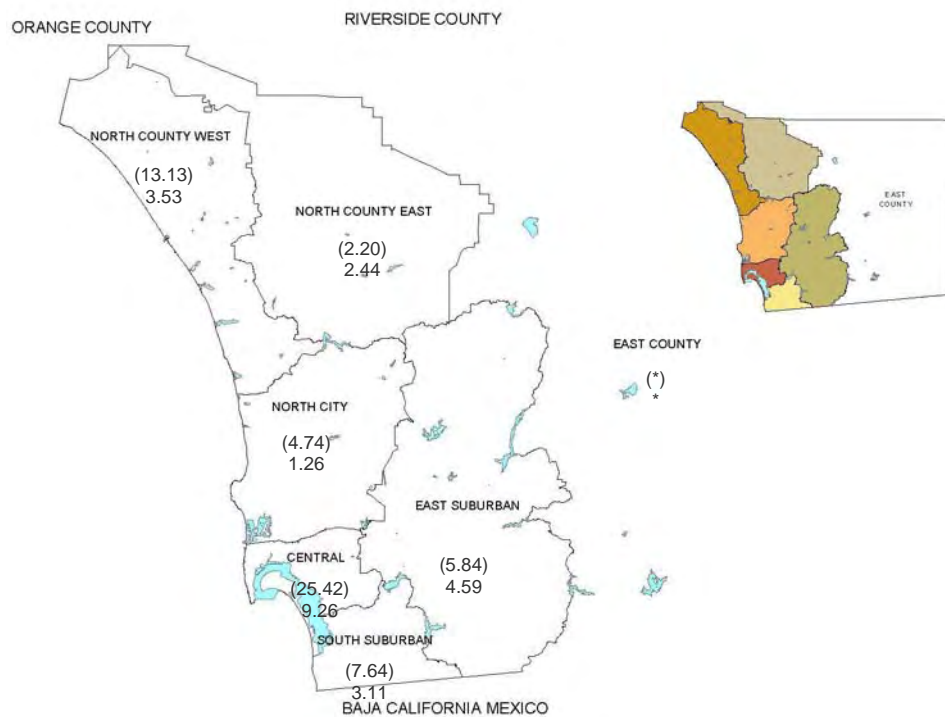
Figure 2.12 shows a breakdown of mechanism of injury for homicides and assaults. Unarmed assaults and stabbings were the leading causes of nonfatal injury, while firearms were used in 59% of homicides.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Rates of injury by subregional areas (SRAs) and Major Statistical Areas (MSAs) were calculated from the zip code where the incident took place. The incident zip code was available for 37% of non-fatal assaults and for 92% of homicides. Homicide and assault rates were highest in the Central MSA. When incident zip code was known, the Central MSA accounted for 52% of assaults and 47% of homicides. Population estimates for each of the MSAs can be found in Appendix B.

Figure 2.13: Assault and Homicide Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect nonfatal assaults while those not in parentheses indicate homicide.

*Rates not calculated on fewer than five incidents.

Please note there were 526 assaults and 11 homicides with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2003/04; Population estimates, San Diego Association of Governments (SANDAG)

Table 2.2: Homicides and Assaults by Mechanism and County Major Statistical Area

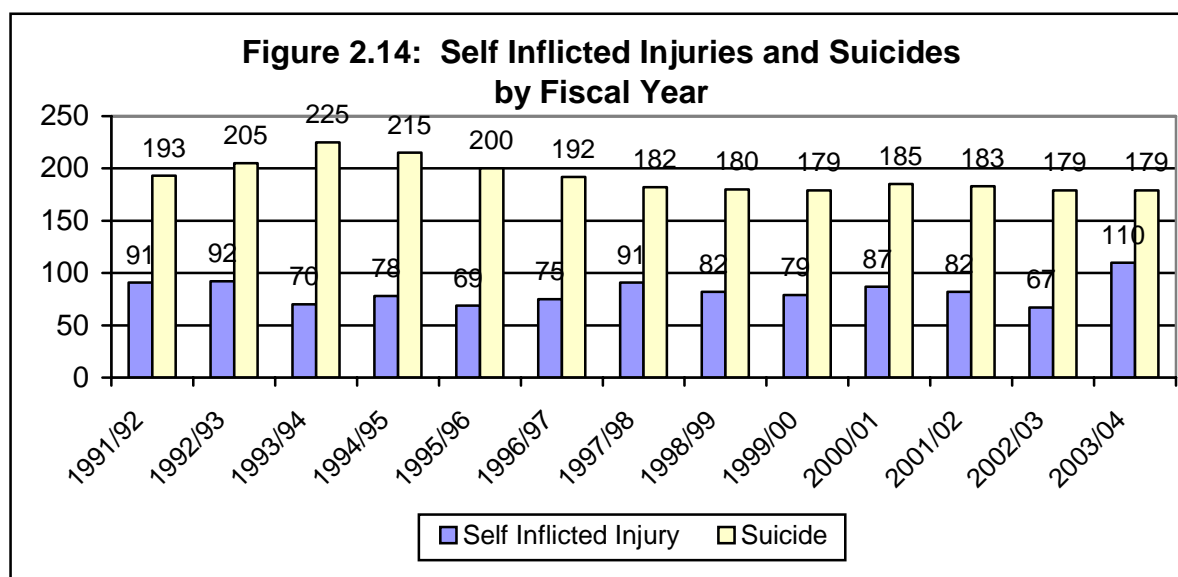
MSA	Unarmed Assault		Gunshot		Stabbing		Other Assault		Overall		Overall Total
	Assault	Homicide	Assault	Homicide	Assault	Homicide	Assault	Homicide	Assault	Homicide	
Central	37	2	43	41	55	9	27	7	162	59	221
North City	12	0	3	4	10	2	9	3	34	9	43
S Suburban	9	0	5	7	10	3	3	1	27	11	38
E Suburban	9	1	5	15	11	2	3	4	28	22	50
North Cnty West	21	6	4	6	19	1	8	1	52	14	66
North Cnty East	6	0	0	5	3	1	0	4	9	10	19
East Cnty	0	0	0	0	0	0	0	0	0	0	0
Oth/Unk	167	2	85	2	169	2	105	5	526	11	537
Overall Total	261	11	145	80	277	20	155	25	838	136	974

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04

Suicides and Self-Inflicted Injuries

Suicide¹ was the second leading cause of traumatic death and third leading contributor to years of potential life lost during FY 2003/04.

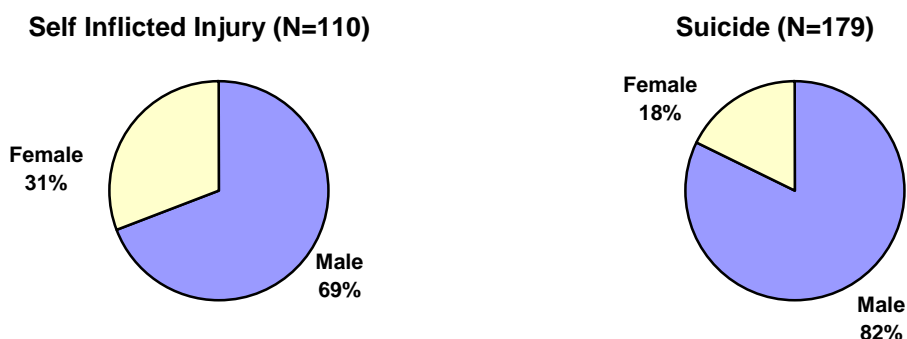
The figure below shows the number of suicides and self-inflicted injuries by fiscal year. The number of traumatic suicides peaked in FY 1993/94 (225), and reached a plateau starting in 1997/98 through 2003/04 when the average annual change was less than 0.5%. FY 2003/04 had the highest number of non-fatal self-inflicted injuries during the thirteen years shown, up 64% from the previous year.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2003/04

¹ For the purpose of this report, suicide and self inflicted injury exclude deaths and severe injuries due to poisoning, drowning, or suffocation as they are considered medical rather than traumatic in nature.

Figure 2.15: Self-Inflicted Injuries and Suicides by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY2003/04; Population Estimates, SANDAG

Males made up 69% of traumatic self-inflicted injuries and 82% of suicides. As Table 2.4 shows, the traumatic suicide rate is highest among older men, with the rate among 75 to 84 year olds three times higher, and that for men 85 years and older more than six times higher than the rate for all ages combined.

Table 2.3: Number and Rate (per 100,000) of Self-Inflicted Injury and Suicide by Age Group and Gender

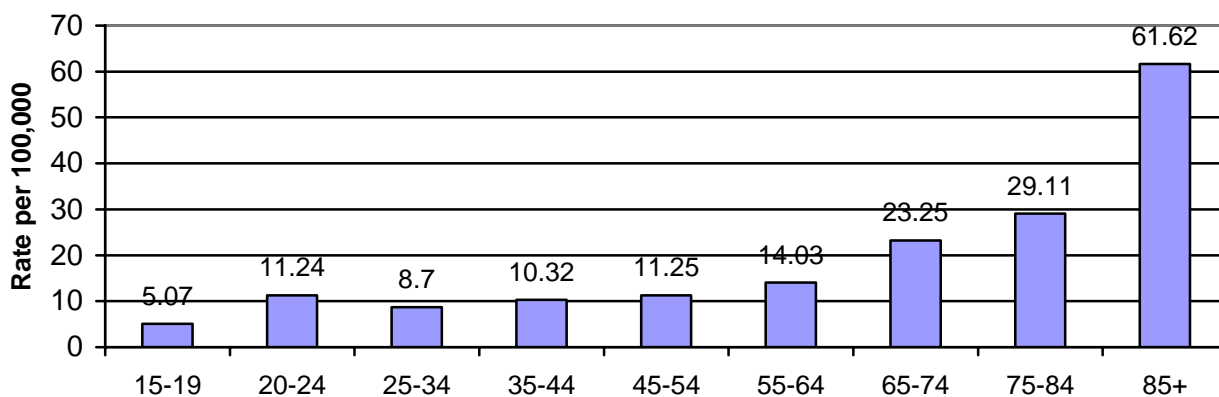
	Self-Inflicted Injury						Suicide						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	0	-	0	-	0	-	0	-	0	-	0	-	0	-
5-9	0	-	0	-	0	-	0	-	0	-	0	-	0	-
10-14	0	-	0	-	0	-	0	-	0	-	0	-	0	-
15-19	5	4.23	5	4.65	10	4.43	6	5.07	1	*	7	3.10	17	7.53
20-24	14	10.49	4	*	18	7.54	15	11.24	2	*	17	7.12	35	14.65
25-34	26	10.77	10	4.44	36	7.72	21	8.70	6	2.67	27	5.79	63	13.51
35-44	12	5.16	9	3.89	21	4.53	24	10.32	6	2.59	30	6.47	51	11.00
45-54	13	6.65	3	*	16	4.01	22	11.25	10	4.90	32	8.01	48	12.02
55-64	1	*	2	*	3	*	17	14.03	0	-	17	6.71	20	7.89
65-74	1	*	1	*	2	*	17	23.25	3	*	20	12.46	22	13.71
75-84	3	*	0	-	3	*	15	29.11	2	*	17	13.76	20	16.19
85+	1	*	0	-	1	*	10	61.62	2	*	12	26.52	13	28.73
Total	76	5.06	34	2.25	110	3.65	147	9.78	32	2.12	179	5.94	289	9.59

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04; Population Estimates, SANDAG

*Rates not calculated on less than five incidents.

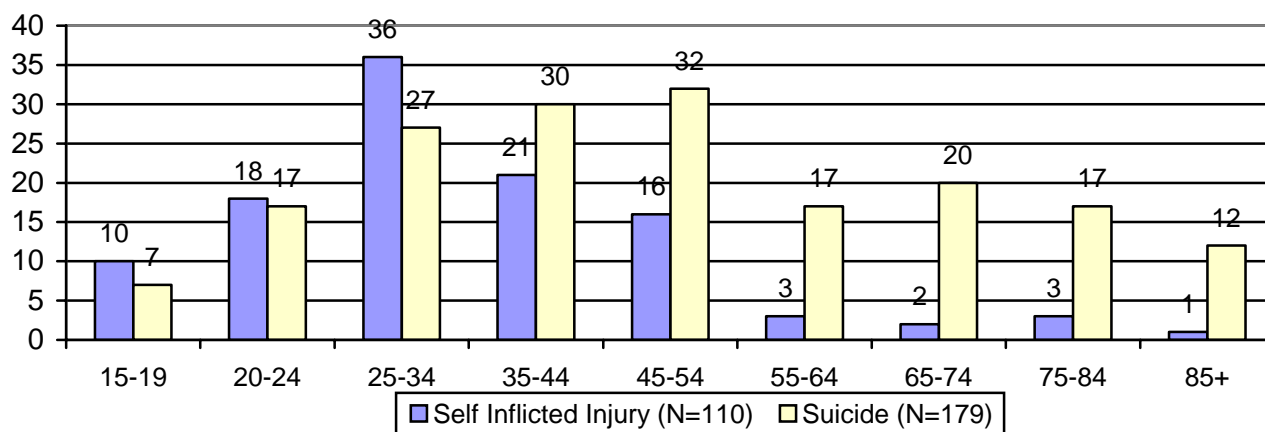
While the highest rates of suicide were found in elderly males, the highest numbers of nonfatal injury, and therefore the group with the greatest impact on the trauma system, were younger than 45 years. Seventy seven percent of nonfatal self-inflicted injuries and 45% of deaths from traumatic suicide were in this age range.

Figure 2.16: Traumatic Suicide Rates by Age Group: Males



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY2003/04; Population Estimates, SANDAG

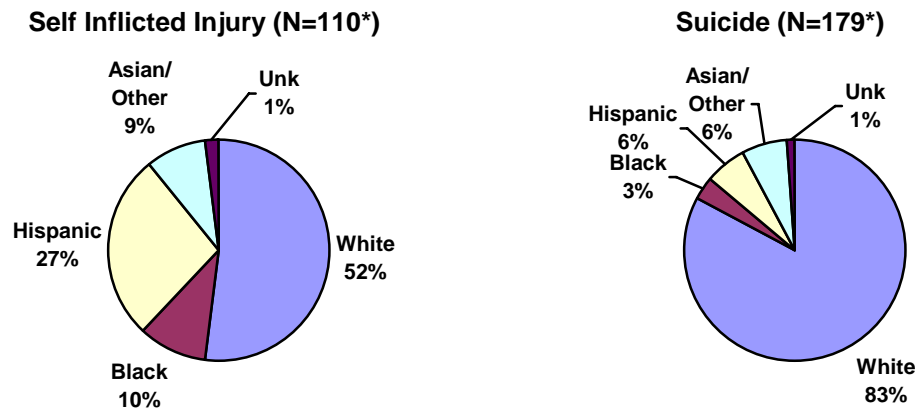
Figure 2.17: Self Inflicted Injuries and Suicides by Age Group



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY2003/04; Population Estimates, SANDAG

The White population makes up 53% of the county, but 83% of deaths from suicide. Traumatic self-inflicted injuries that were not fatal had a racial distribution far more reflective of the overall population make-up.

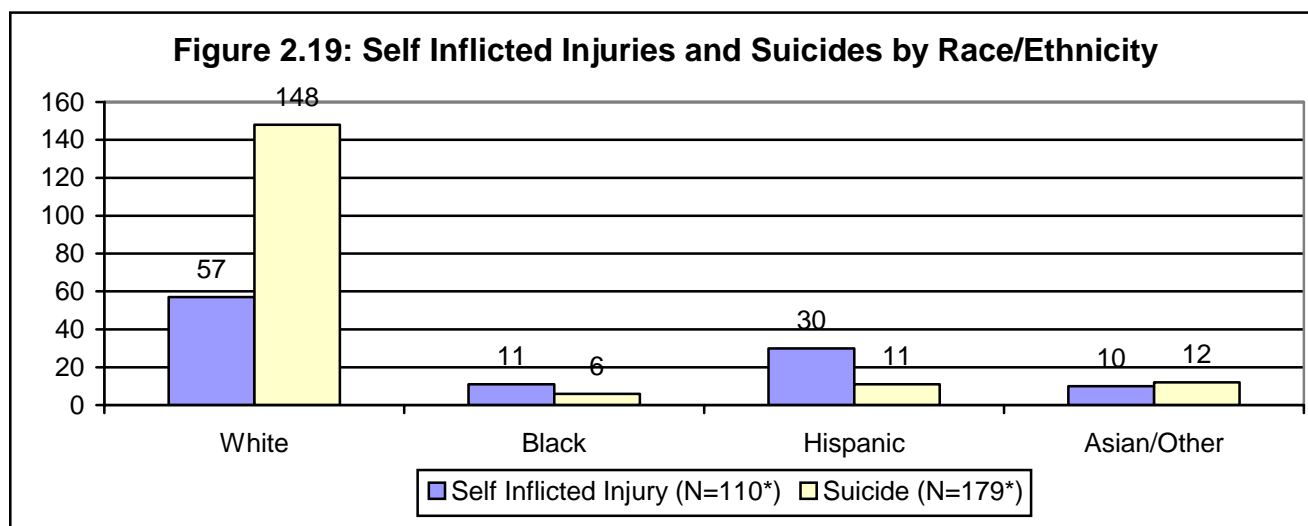
Figure 2.18: Self Inflicted Injuries and Suicides by Race/Ethnicity



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04

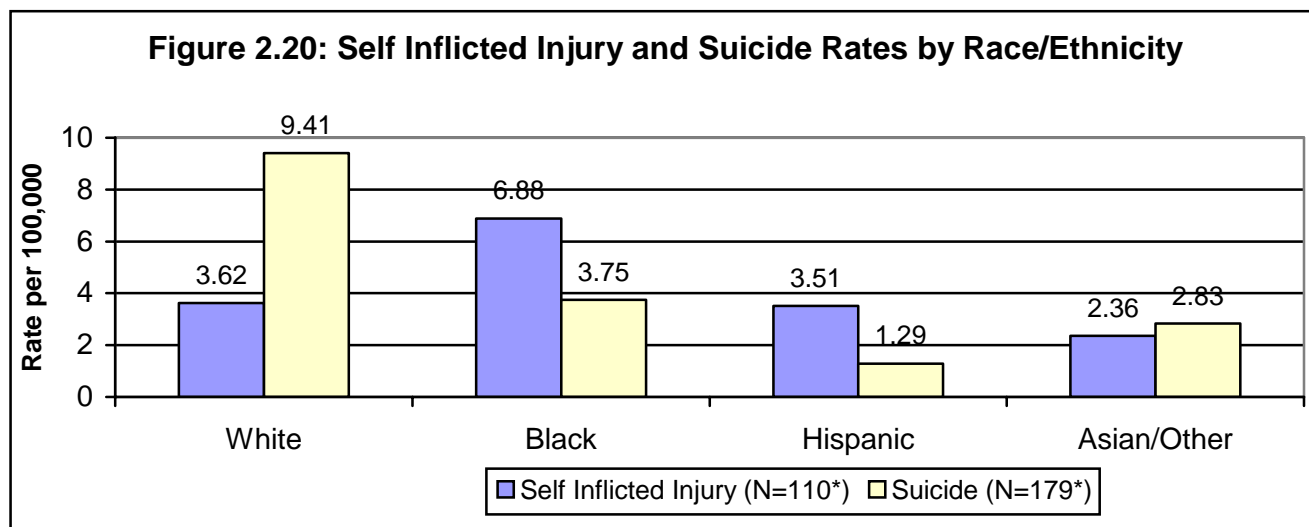
*Totals include two self-inflicted injury and two suicides of undetermined race/ethnicity.

The traumatic suicide rate in the White population was more than twice as high as any other race/ethnic group. The rate of nonfatal injuries per 100,000, however, was comparable to other groups.



*Totals include one self-inflicted injury and two suicides with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

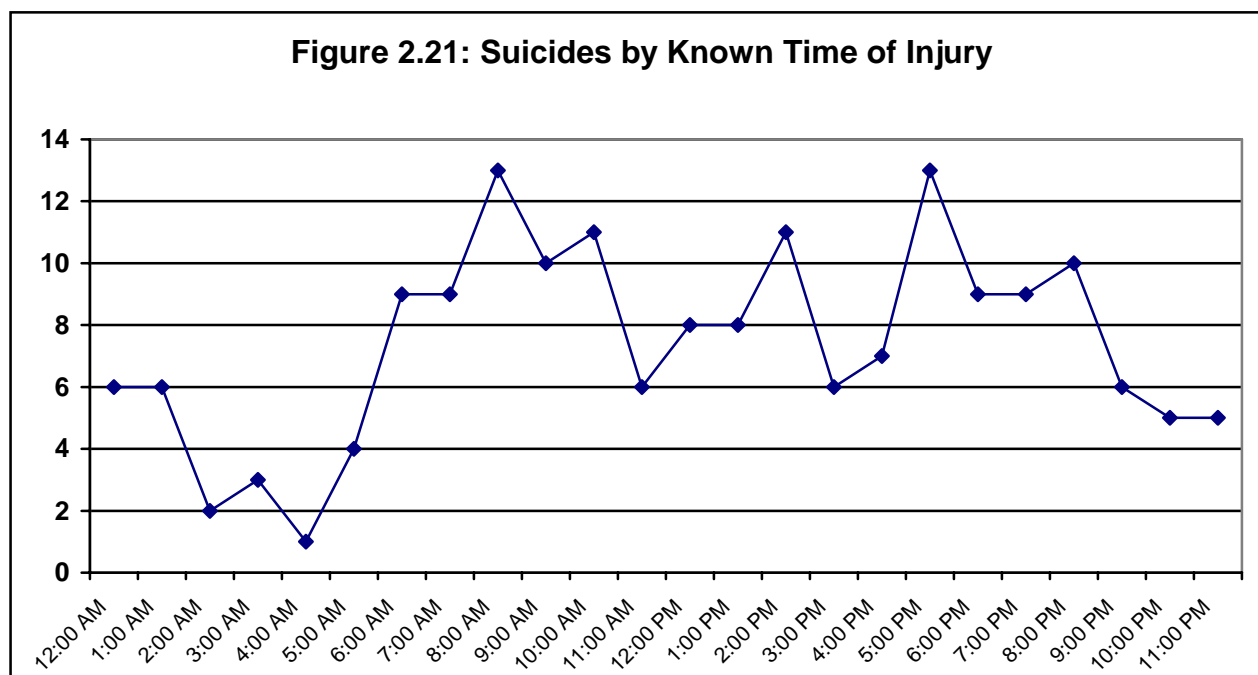


*Totals include one self-inflicted injury and two suicides with unspecified race/ethnicity.

**Rates not calculated for fewer than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

The majority of suicides were reported to have occurred during daytime hours, with 63% of incidents between 6 a.m. and 6 p.m. There may be some artifact to this number, however, as suicides are unlikely to be witnessed, and the time of injury is usually recorded as the time that the person was discovered.

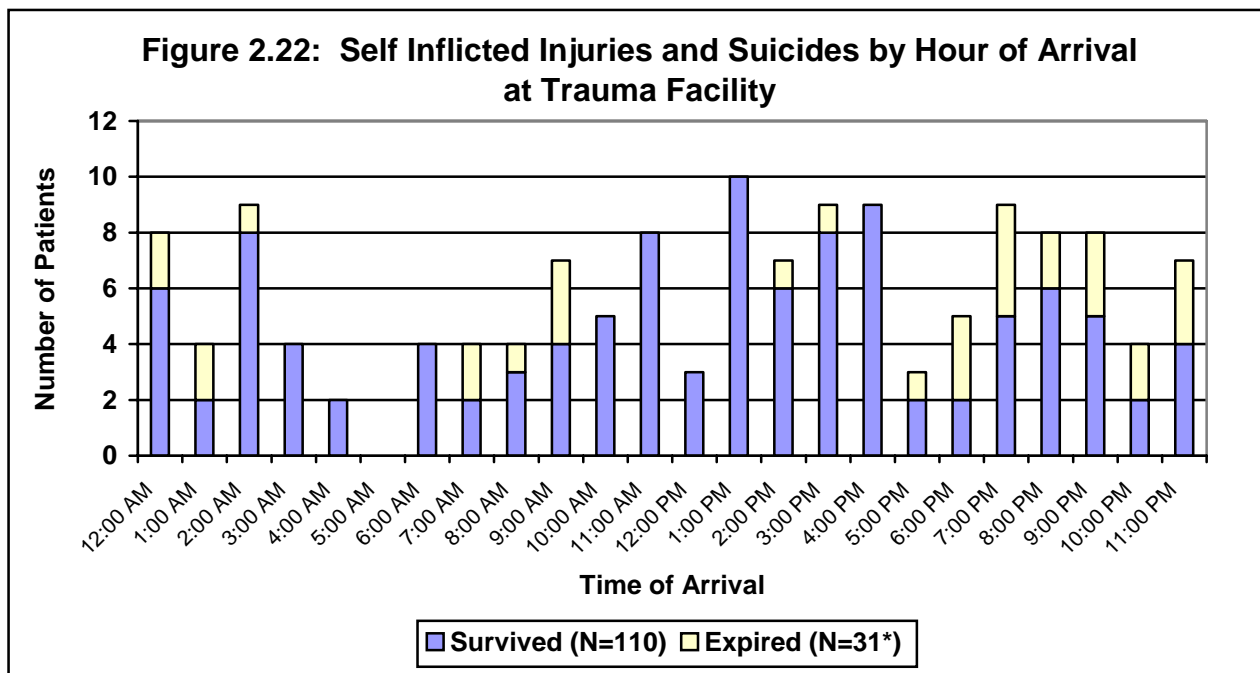


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

There were 2 suicides with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2003/04

Self-inflicted injuries did not follow a distinct pattern regarding time of arrival at trauma facilities, although the number was lowest during the mid-morning hours.



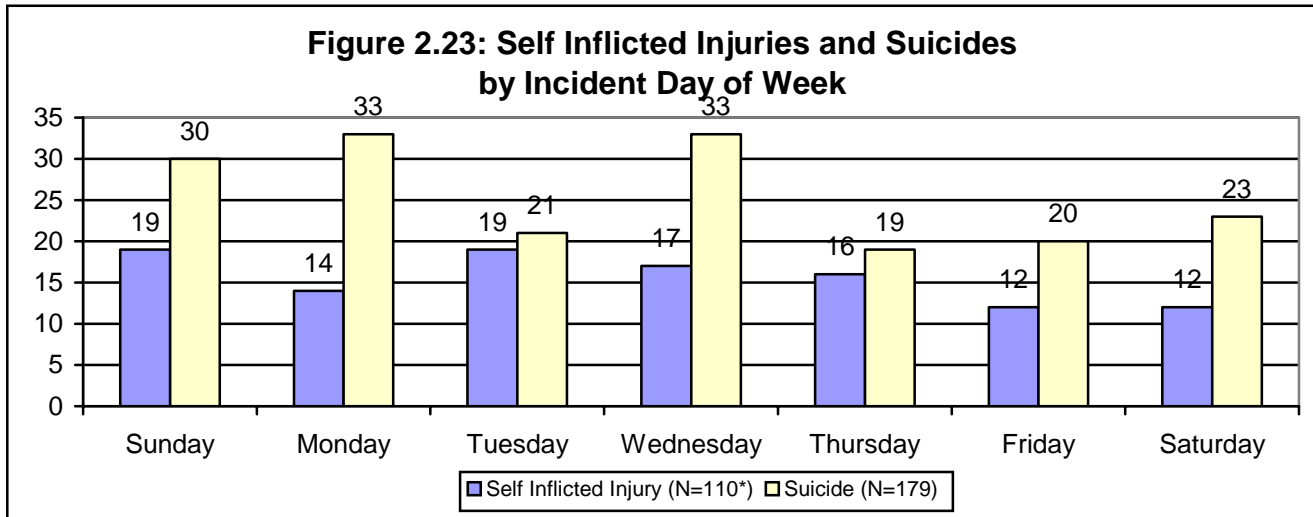
All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

*Note: limited to patients arriving at trauma facilities (deaths on scene not applicable)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry, FY 2003/04

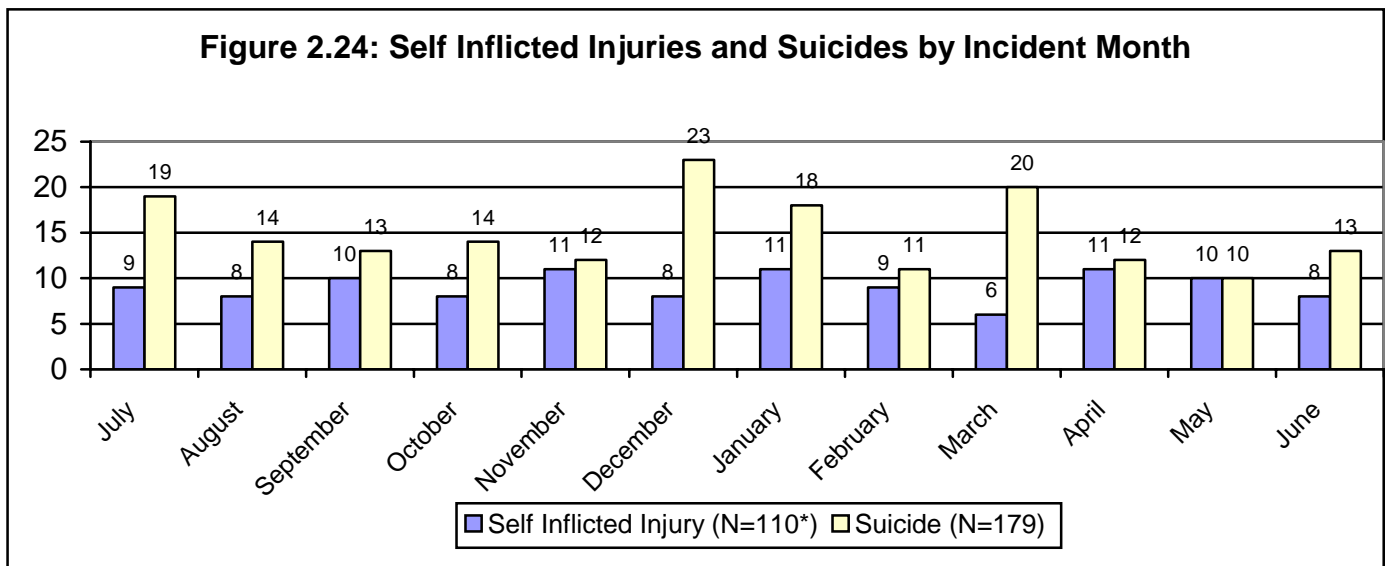
Monday and Wednesday had the greatest number suicides (37% of total). Sundays and Tuesdays had the highest number of nonfatal self-inflicted injuries (19).

December had the highest number of suicides (23), while nonfatal self-inflicted injuries did not have a definite peak.



*Totals include one self-inflicted injury with unspecified incident date.

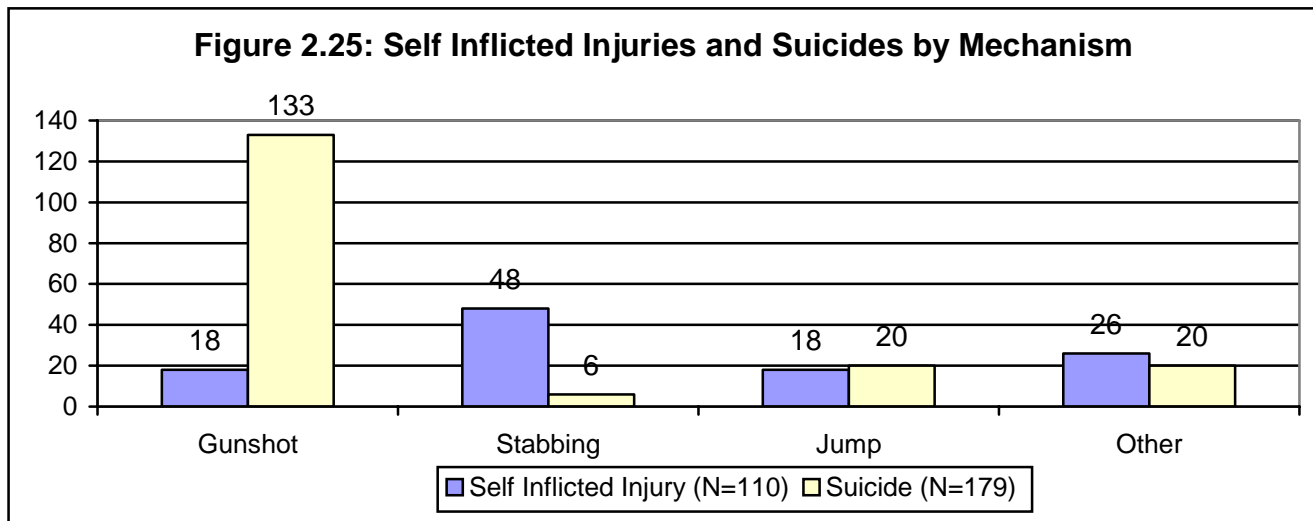
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04



*Totals include one self-inflicted injury with unspecified incident date.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

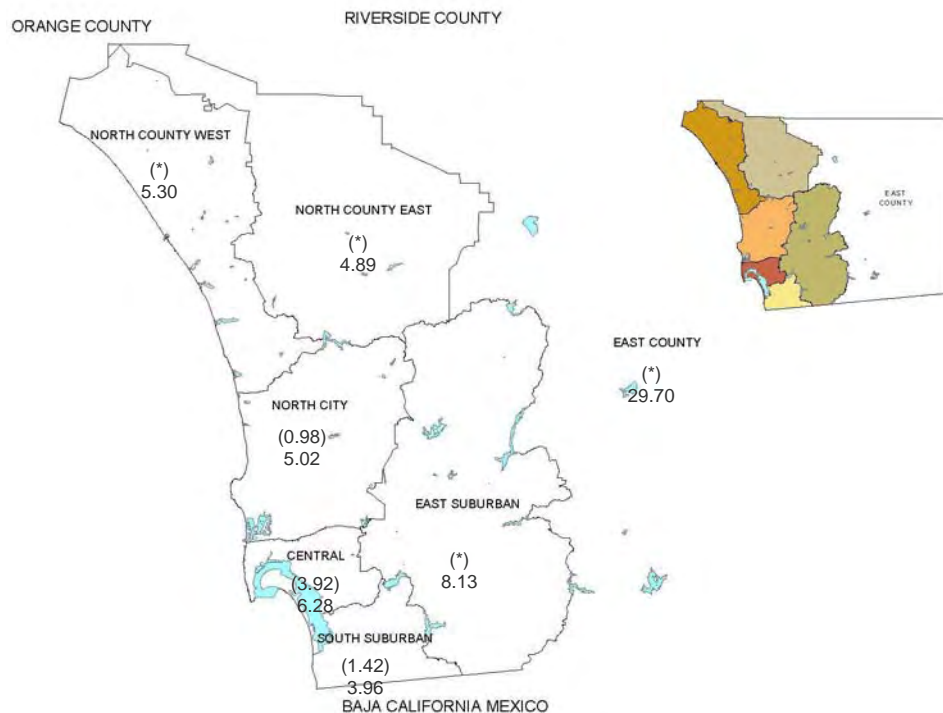
Nonfatal self-inflicted injuries were very different from completed suicides with regard to the mechanism of injury. Gunshot wounds were the mechanism for 74% of completed suicides, but only made up 16% of nonfatal self-inflicted injuries. Self-inflicted cut or stab wounds, meanwhile, made up only 3% of completed suicides, but 44% of nonfatal self-inflicted injuries.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 41% of non-fatal self-inflicted injuries and for 98% of suicides. The highest rate of suicide was in the East County, and the highest nonfatal self-inflicted injury rate was in the Central MSA. Population estimates for each of the MSAs can be found in Appendix B.

Figure 2.26: Self-Inflicted Injury and Suicide Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect self-inflicted injury while those not in parentheses indicate suicide.

*Rates not calculated on fewer than five incidents.

Please note there were 65 self-inflicted injuries and three suicides with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2003/04; Population estimates, San Diego Association of Governments (SANDAG)

Table 2.4: Self-Inflicted Injuries and Suicides by Mechanism and Major Statistical Area

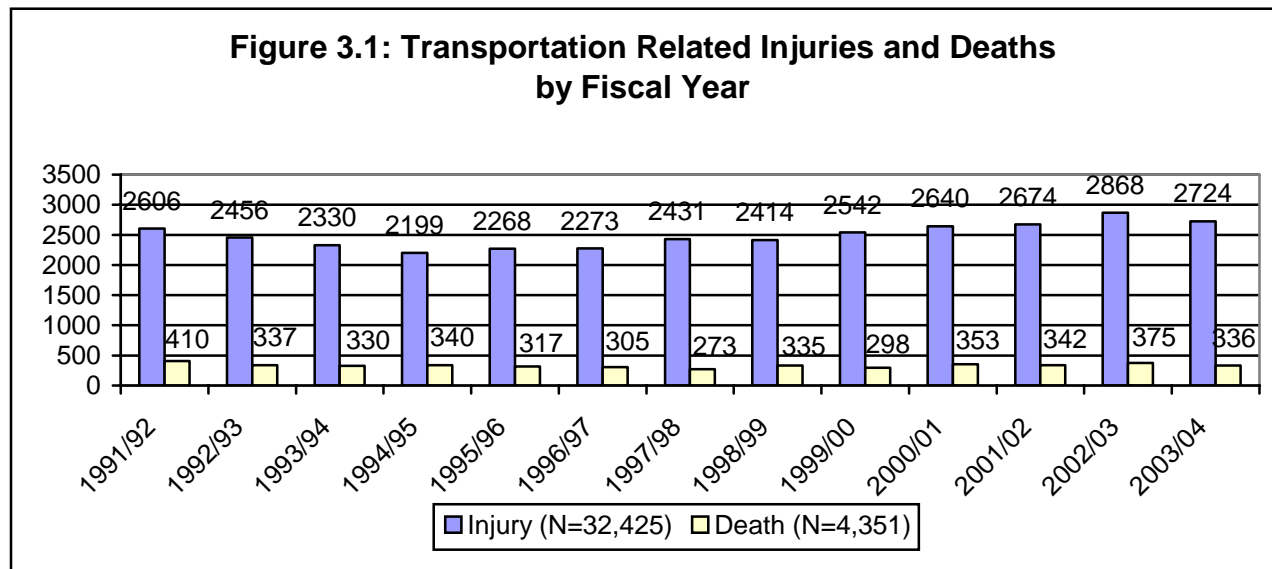
	Gunshot		Stabbing		Jump		Other		Overall Total
	Injury	Death	Injury	Death	Injury	Death	Injury	Death	
Central	7	26	10	0	2	11	6	3	65
North City	1	29	4	1	1	2	1	4	43
S Suburban	0	10	3	1	0	0	2	3	19
E Suburban	3	33	1	2	0	1	0	3	43
North Cnty West	1	17	1	0	0	1	1	3	24
North Cnty East	0	17	0	1	0	1	0	1	20
East Cnty	0	1	0	0	0	4	1	1	7
Oth/Unk	6	0	29	1	15	0	15	2	68
Overall Total	18	133	48	6	18	20	26	20	289

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04

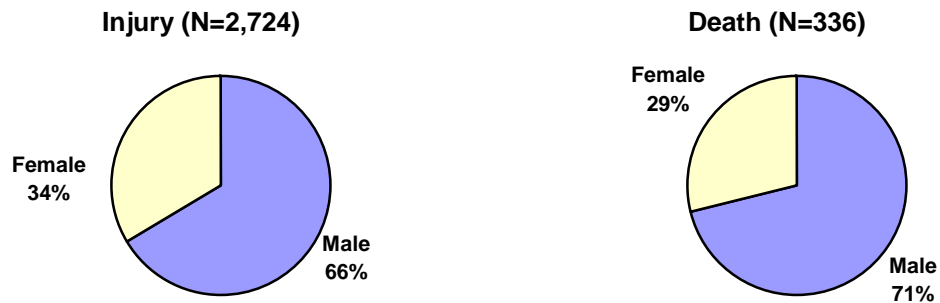
Transportation Related Injuries

Transportation related crashes are those that occur to motor vehicle occupants, motorcyclists, pedalcyclists, pedestrians struck by motor vehicles, and other vehicle occupants. There were 336 lives lost in transportation related crashes during FY 2003/04. For every patient who died as a result of a transportation related crash, more than eight others were injured in such a crash.

The number of severe injuries due to transportation related crashes decreased by five percent from the previous fiscal year, while the number of deaths decreased by ten percent.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 – 2003/04

Figure 3.2: Transportation Related Injuries and Deaths by Gender

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04.

Males made up 66% of injuries and 71% of deaths related to transportation. Rates of both injury and death were substantially higher in males throughout the age spectrum.

Table 3.1: Number and Rate (per 100,000)* of Transportation Related Injury and Death by Age Group and Gender

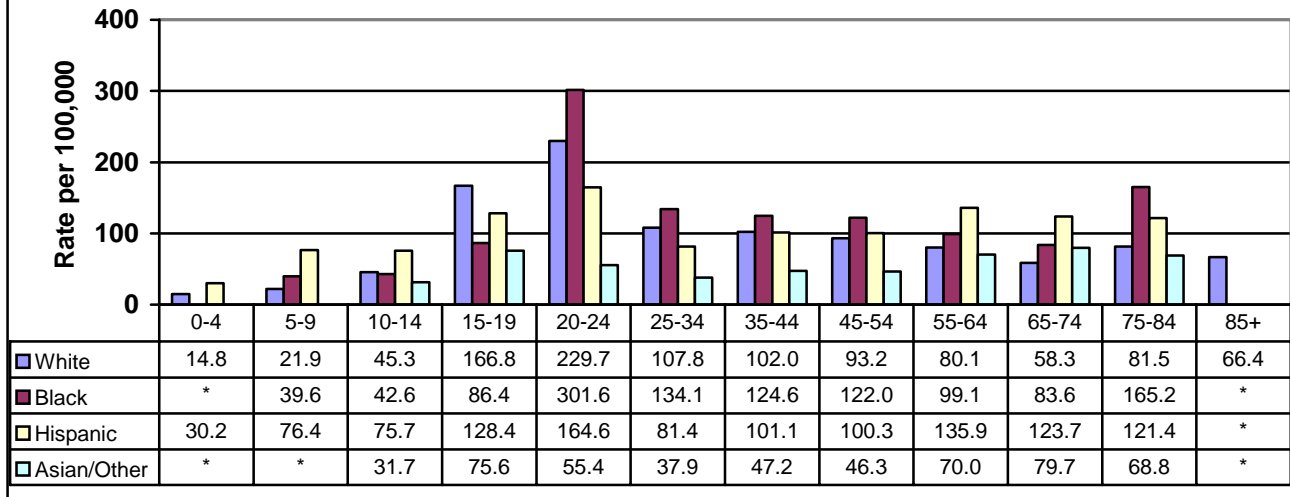
	Injury						Death							
	Male		Female		Total		Male		Female		Total		Overall Total	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	27	25.13	16	14.74	43	19.91	4	*	2	*	6	2.78	49	22.69
5-9	55	55.24	27	27.10	82	41.17	2	*	0	-	2	*	84	42.17
10-14	78	69.41	46	42.34	124	56.10	1	*	2	*	3	*	127	57.46
15-19	196	165.77	116	107.99	312	138.26	22	18.61	10	9.31	32	14.18	344	152.44
20-24	321	240.47	125	118.64	446	186.73	49	36.71	5	4.75	54	22.61	500	209.34
25-34	309	128.02	114	50.65	423	90.69	33	13.67	10	4.44	43	9.22	466	99.90
35-44	291	125.14	156	67.45	447	96.37	42	18.06	14	6.05	56	12.07	503	108.45
45-54	248	126.84	116	56.88	364	91.13	35	17.90	13	6.37	48	12.02	412	103.14
55-64	136	112.21	89	67.34	225	88.80	28	23.10	10	7.57	38	15.00	263	103.80
65-74	73	99.85	45	51.51	118	73.54	10	13.68	8	9.16	18	11.22	136	84.75
75-84	56	108.67	52	72.21	108	87.42	6	11.64	13	18.05	19	15.38	127	102.80
85+	18	110.91	14	48.23	32	70.71	7	43.13	10	34.45	17	37.56	49	108.27
Total	1808	120.32	916	60.65	2,724	90.41	239	15.91	97	6.42	336	11.15	3,060	101.56

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data FY 2003/04; Population estimates, SANDAG

*Rates not calculated on fewer than five incidents

The highest overall rates of transportation related injury were in the 15 to 19 and 20 to 24 year age groups, with the White population showing the highest rate among 15 to 19 year olds (167 per 100,000) and Blacks having the highest injury rate among 20 to 24 year olds (302 per 100,000). Death rates were highest among Whites 85 years and older (40 per 100,000).

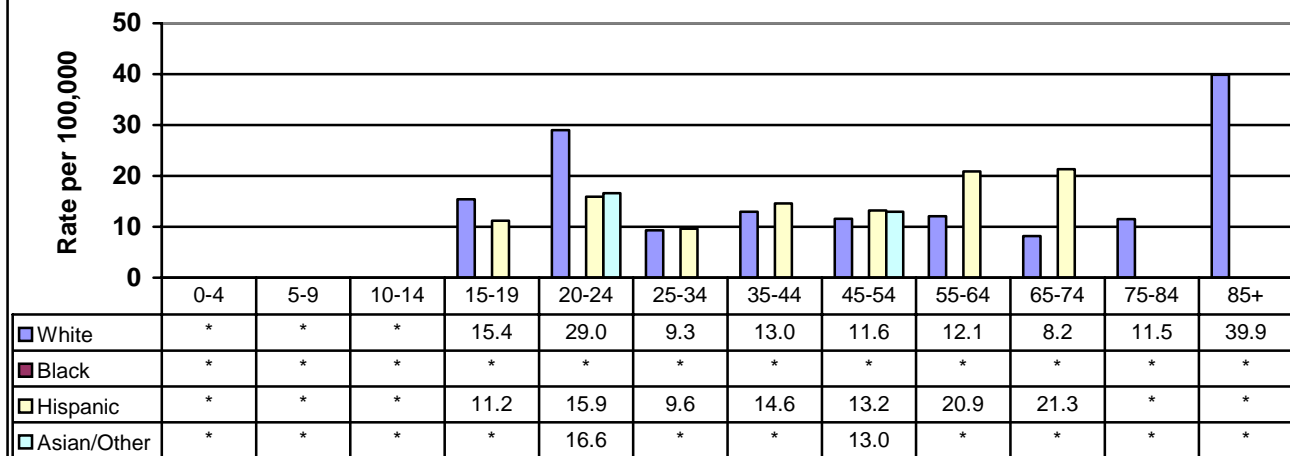
Figure 3.3: Transportation Related Injury Rates by Age and Race/Ethnicity



Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04
Population estimates, SANDAG

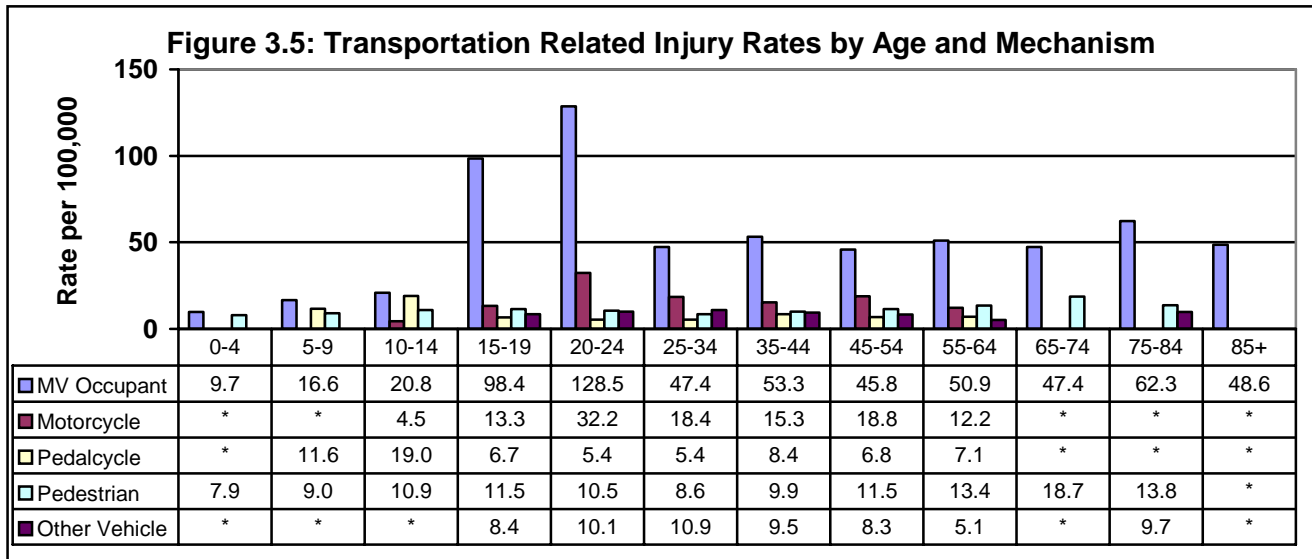
Figure 3.4: Transportation Related Death Rates by Age and Race/Ethnicity



Note: Rates not calculated on fewer than five incidents

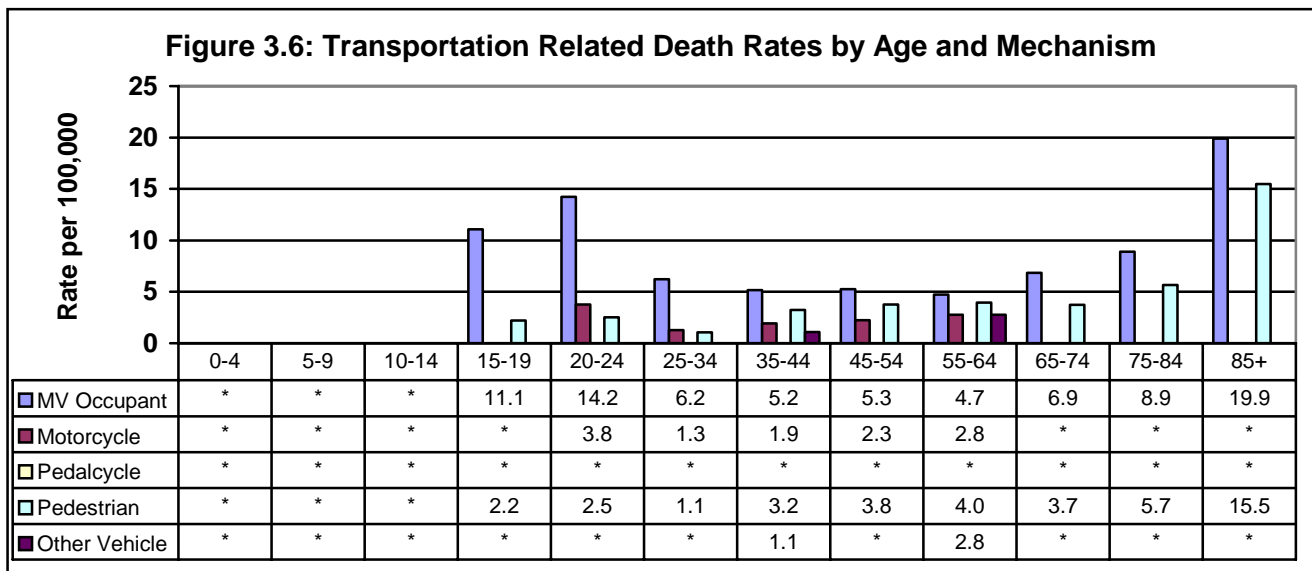
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04
Population estimates, SANDAG

Motor vehicle occupant crashes accounted for a significantly higher rate of death and severe injury than other transportation related mechanisms of injury for most age groups. The highest rate of transportation related severe injury was found in motor vehicle occupants aged 20-24 (129 injuries per 100,000 population), while the highest death rate was among motor vehicle occupants 85 years of age and older (20 deaths per 100,000 population).



Note: Rates not calculated on fewer than five incidents

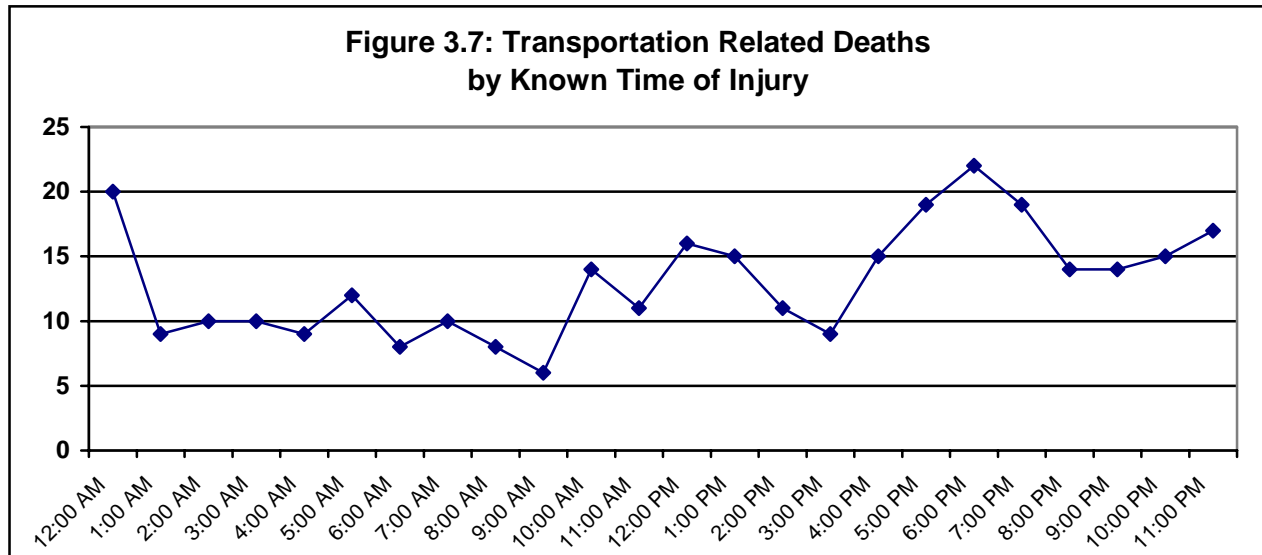
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04
Population estimates, SANDAG



Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04
Population estimates, SANDAG

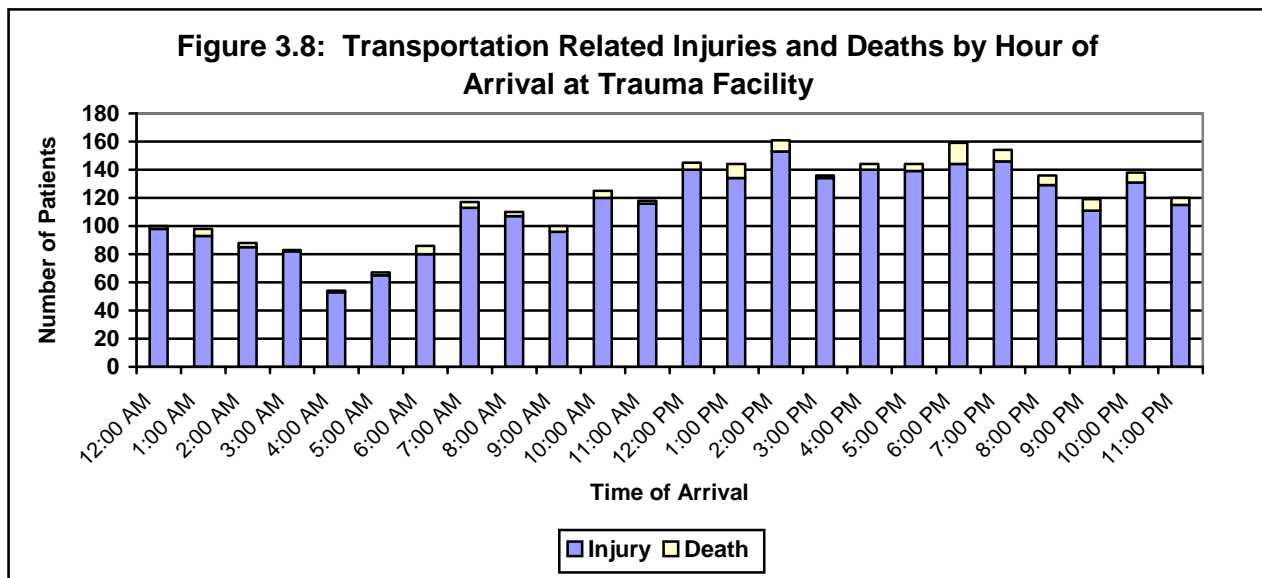
Transportation-related crashes resulting in deaths peaked during the late afternoon and early evening hours, reaching a maximum of 22 during the hour between 6:00 and 7:00 pm. The frequency of transportation-related trauma patient arrivals increased steadily through the day from the 4:00 am hour (54 total patients for the year), 2:00 pm (161 patients), and declined steadily from 6:00 pm (159) to 4:00 am.



All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

There were 23 deaths with an unidentified time of injury

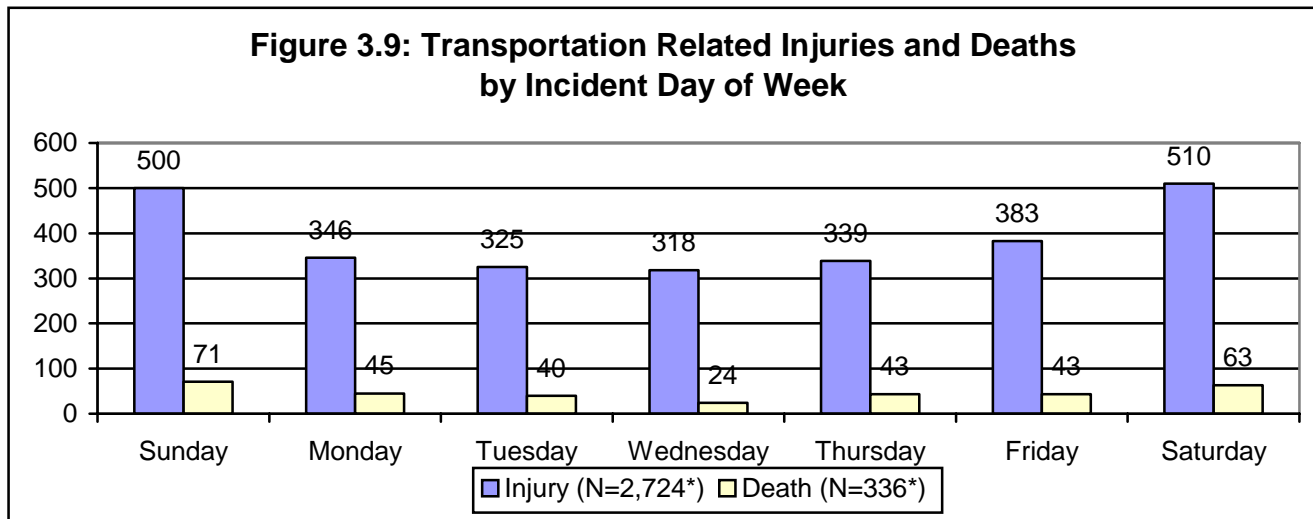
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2003/04



All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

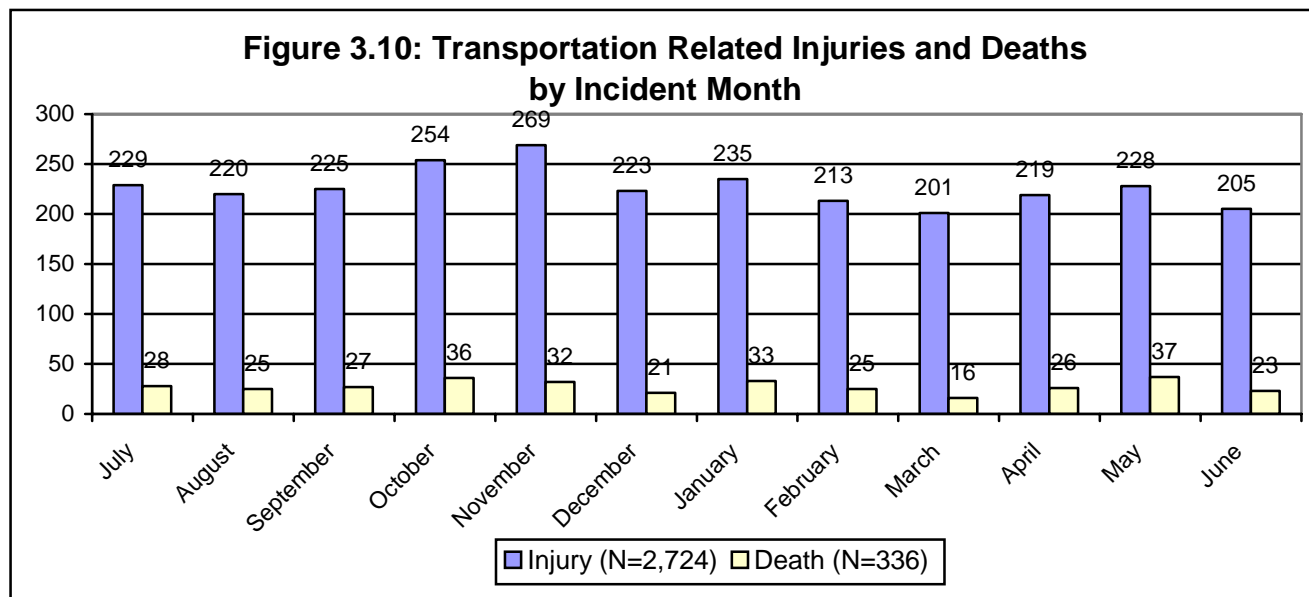
Saturdays and Sundays experienced the greatest numbers of injuries and deaths (37% of injuries, 40% of deaths).



*Three injuries and seven deaths had unspecified incident dates

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

The month with the greatest number of injuries was November (269), while May had the highest number of deaths (36).

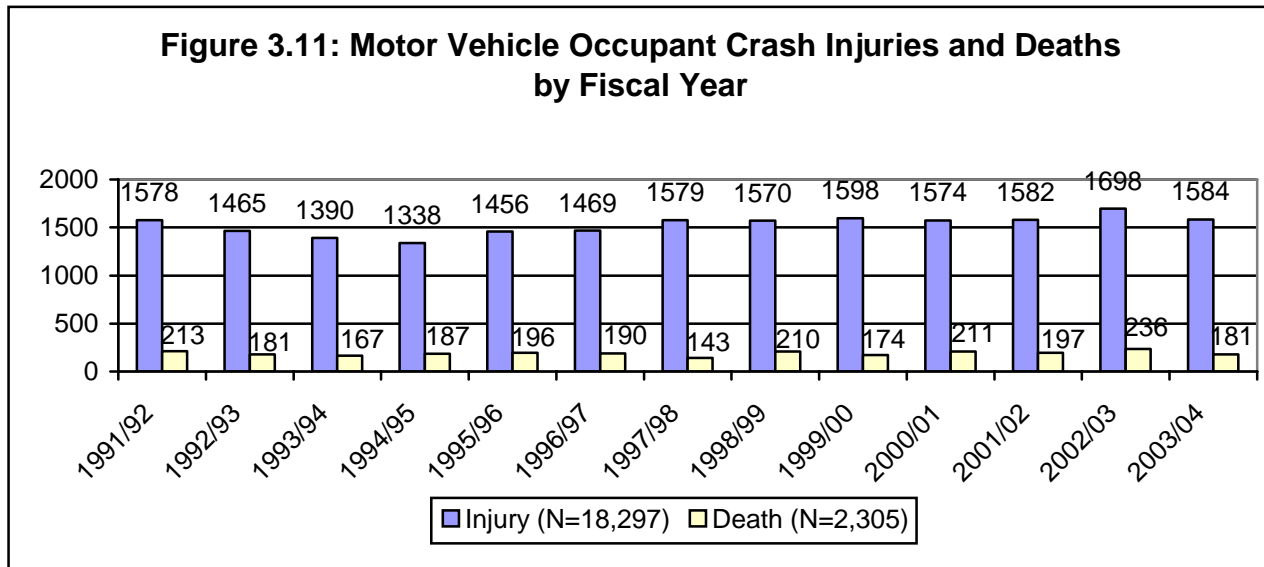


*Three injuries and seven deaths had unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Motor Vehicle Occupant Crash Injuries

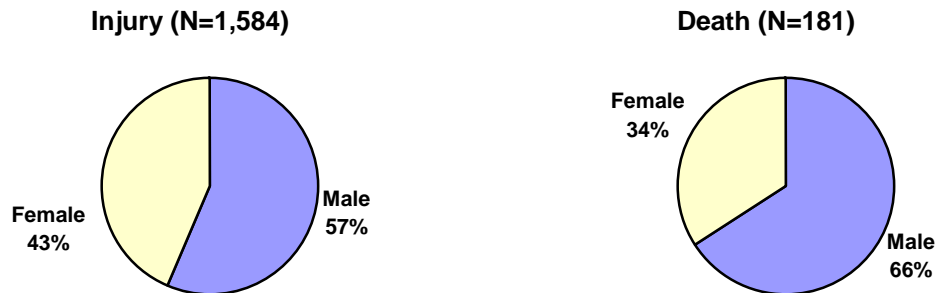
The number of motor vehicle occupant crash injuries decreased significantly by 7% from FY 2002/03 to 2003/04, while deaths decreased by 23%.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2003/04

Males accounted for 57% of injuries and 66% of deaths to motor vehicle occupants.

Figure 3.12: Motor Vehicle Occupant Crash Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Injury rates were highest in the 20 to 24 year age group (129 per 100,000), and death rates were highest among those 85 years of age and older (20 per 100,000).

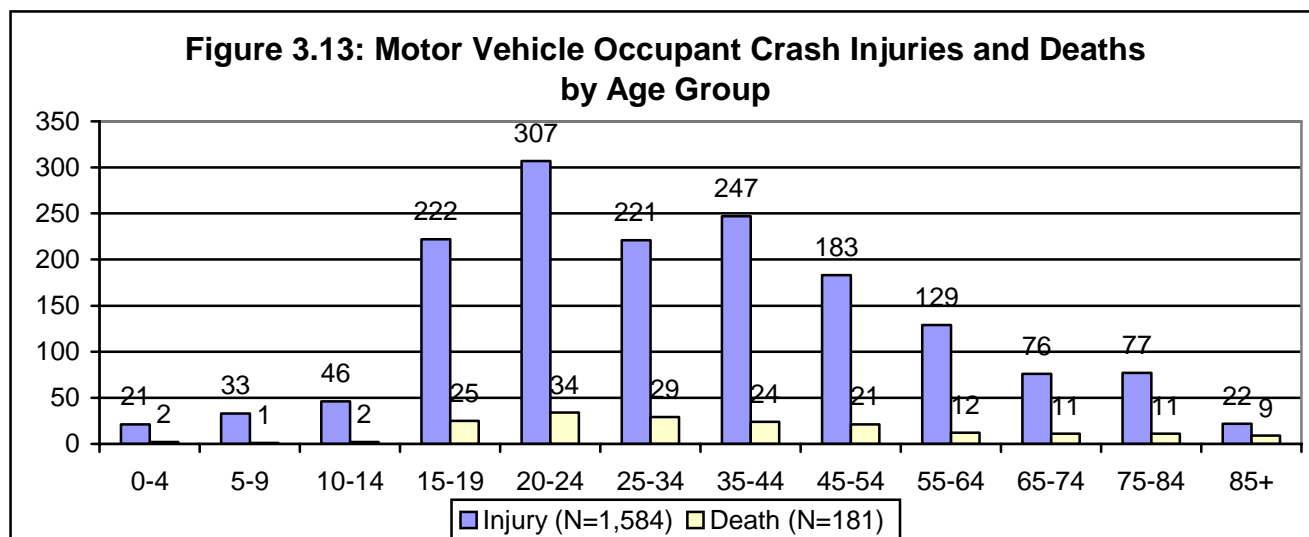
Table 3.2: Number and Rate* (per 100,000) of Motor Vehicle Occupant Crash Injury and Death by Age Group and Gender

	Injury						Death							
	Male		Female		Total		Male		Female		Total		Overall Total	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	10	9.31	11	10.14	21	9.72	1	*	1	*	2	*	23	10.65
5-9	18	18.08	15	15.06	33	16.57	1	*	0	-	1	*	34	17.07
10-14	22	19.58	24	22.09	46	20.81	0	-	2	*	2	*	48	21.72
15-19	122	103.18	100	93.09	222	98.38	16	13.53	9	8.38	25	11.08	247	109.46
20-24	201	150.57	106	100.61	307	128.53	29	21.72	5	4.75	34	14.23	341	142.77
25-34	142	58.83	79	35.10	221	47.38	22	9.11	7	3.11	29	6.22	250	53.60
35-44	125	53.75	122	52.75	247	53.25	17	7.31	7	3.03	24	5.17	271	58.43
45-54	98	50.12	85	41.68	183	45.81	14	7.16	7	3.43	21	5.26	204	51.07
55-64	64	52.80	65	49.18	129	50.91	6	4.95	6	4.54	12	4.74	141	55.65
65-74	44	60.18	32	36.63	76	47.36	6	8.21	5	5.72	11	6.86	87	54.22
75-84	39	75.68	38	52.77	77	62.33	3	*	8	11.11	11	8.90	88	71.23
85+	10	61.62	12	41.34	22	48.61	4	*	5	17.23	9	19.89	31	68.50
Total	895	59.56	689	45.62	1,584	52.57	119	7.92	62	4.10	181	6.01	1,765	58.58

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04; Population estimates, SANDAG

*Rates not calculated on fewer than five incidents

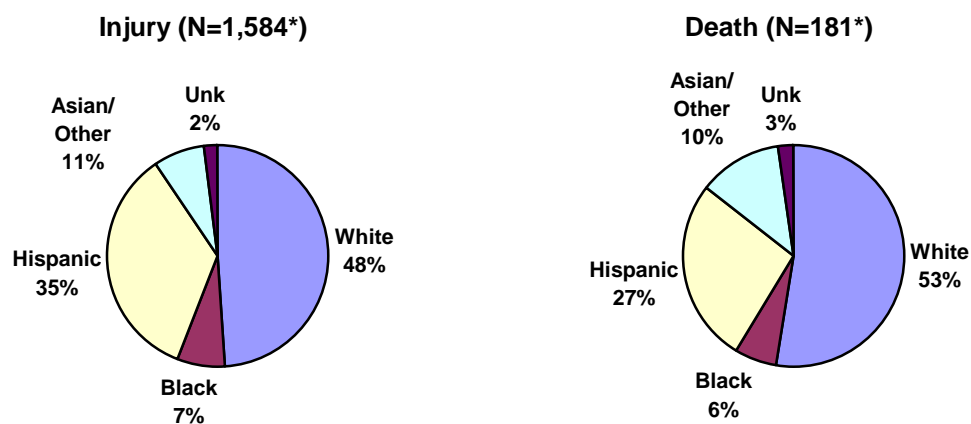
As illustrated in figure 3.13, more than half of injuries and deaths due to motor vehicle occupant (MVO) crashes are to younger adults (ages 15-44). During FY 2003/04, 63% of injuries and 62% of deaths due to MVO crashes occurred to individuals between 15 and 44 years of age.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Hispanics were slightly over represented among MVO crash injuries and deaths, making up 28% of the total county population, but 35% of injuries and 27% of deaths during FY 2003/04.

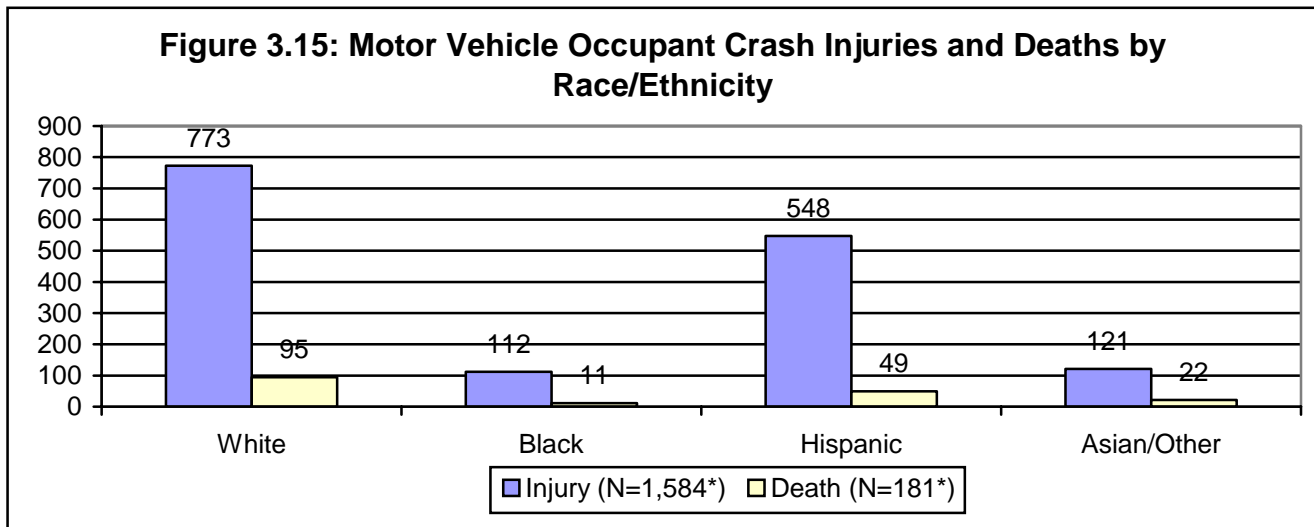
Figure 3.14: Motor Vehicle Occupant Crash Injuries and Deaths by Race/Ethnicity



*Totals include 30 injuries and four deaths with unspecified race/ethnicity.

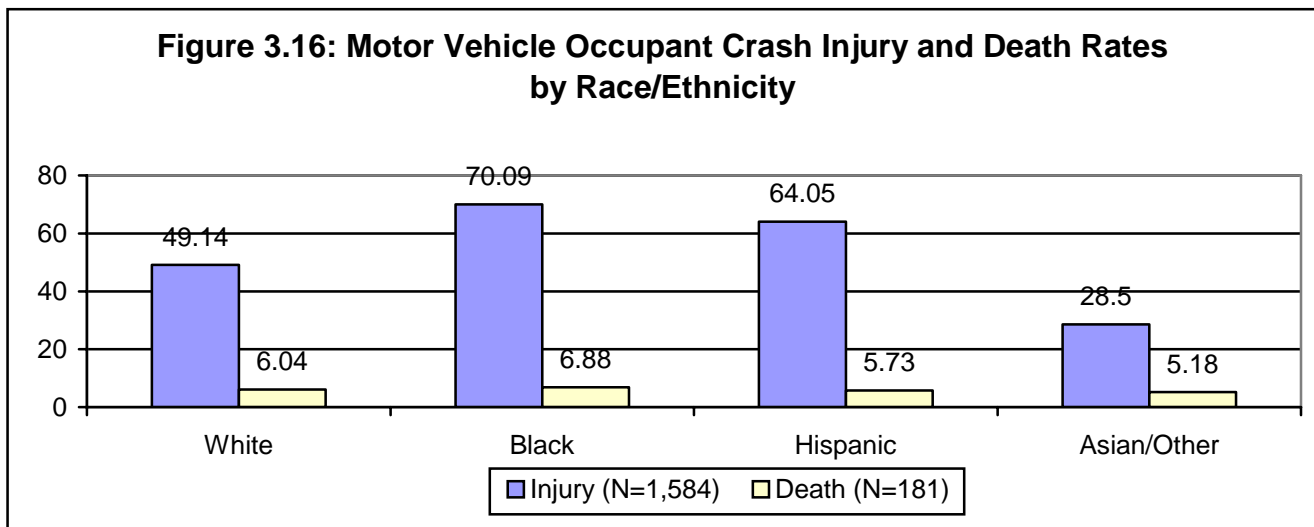
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

While Whites accounted for half of injuries and deaths due to MVO crashes, the highest rates of injury and death were in the Black population (70 injuries and seven deaths per 100,000).



*Totals include 30 injuries and four deaths with unspecified race/ethnicity.

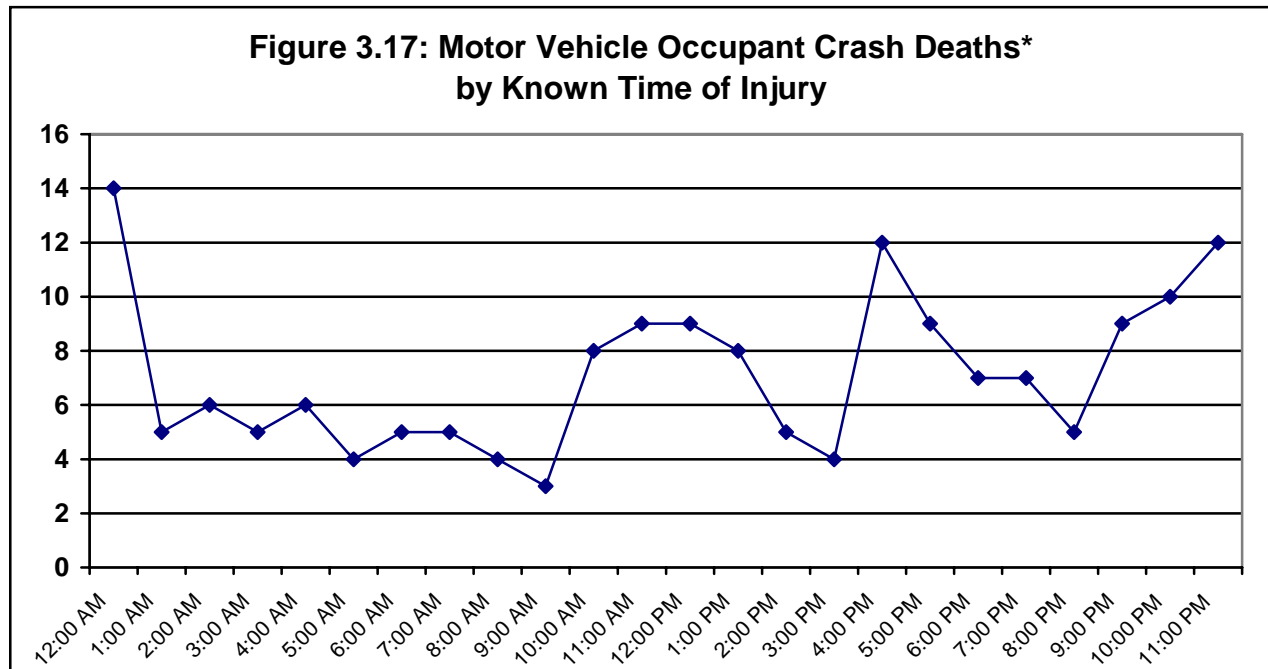
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04



*Totals include 30 injuries and four deaths with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

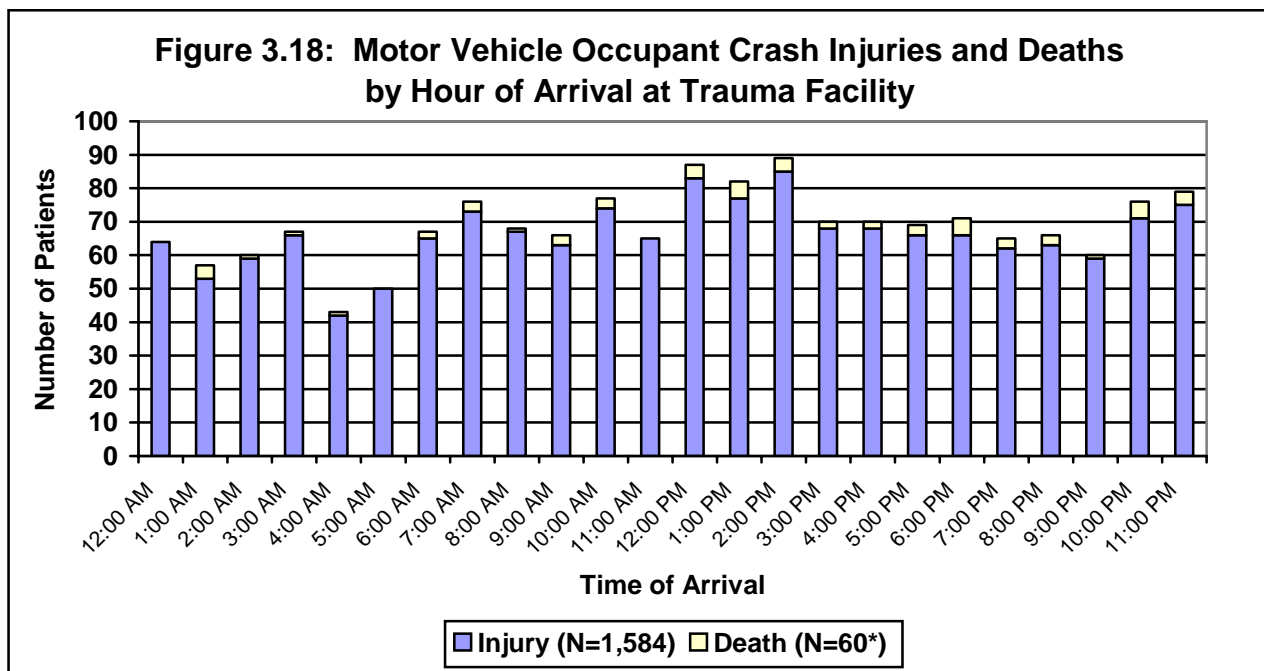
The peak hour for fatal MVO crashes was between midnight and 1:00 am. The number of trauma patients admitted to trauma facilities was highest between noon and 3:00 pm.



All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

*There were 10 deaths with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2003/04

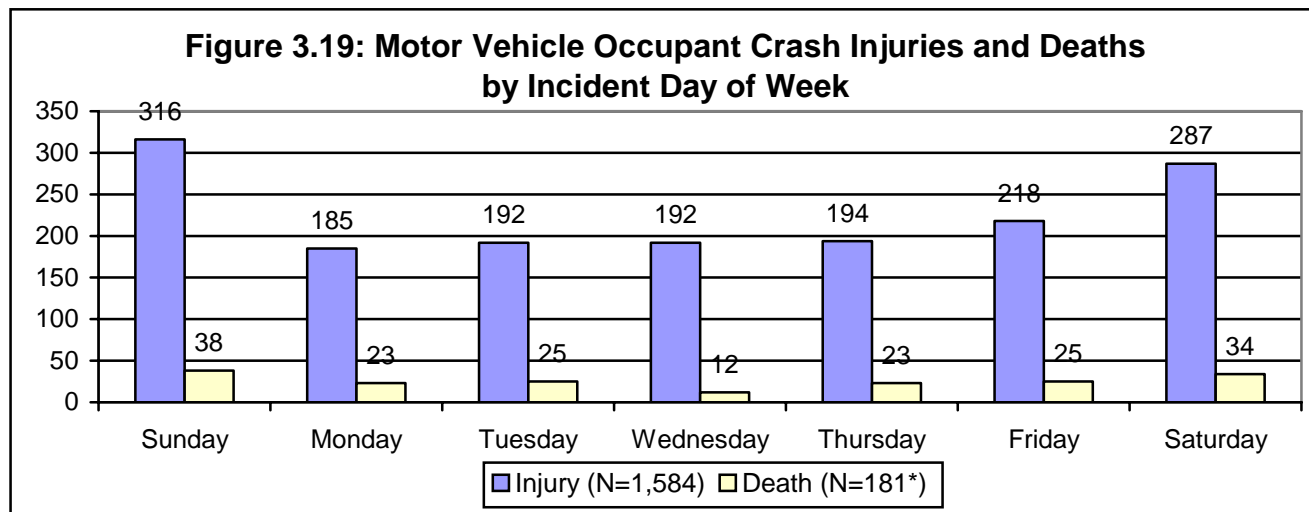


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

*Note: limited to patients arriving at trauma facilities (deaths on scene or at non-trauma facilities not applicable)

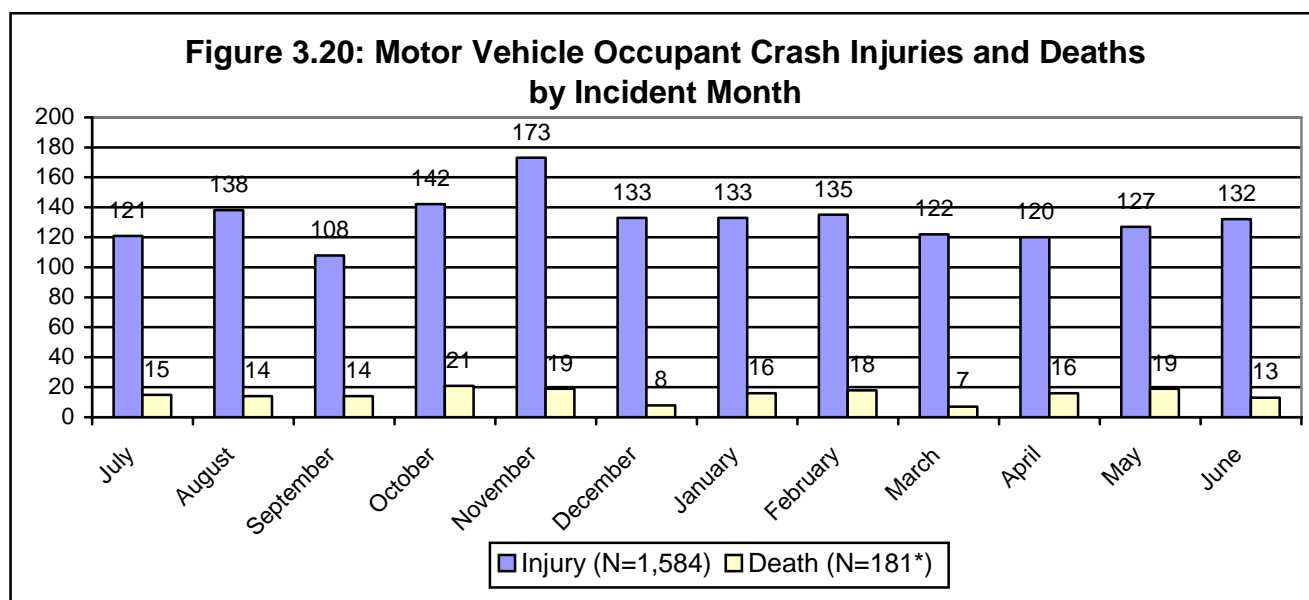
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Motor Vehicle Occupant Crash injuries were highest on weekends, with Saturday and Sunday making up 38% of injuries and 40% of deaths. The month with the highest number of MVO injuries was November, while October had the highest number of deaths.



*Totals include one death with unspecified incident date.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

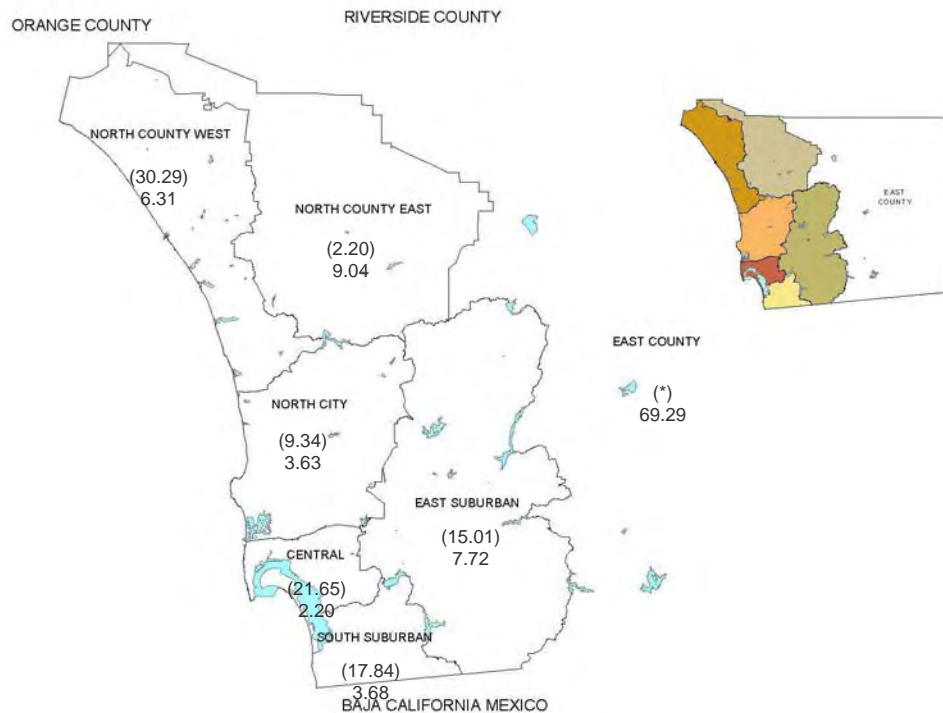


*Totals include one death with unspecified incident date.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 30% of non-fatal MVO injuries and for 92% of deaths from MVO crashes. The highest rate of injury from MVO crashes was in the North County West region (30 injuries per 100,000), while the sparsely populated East County region had the highest MVO death rate (69 deaths per 100,000). Population estimates for each of the MSAs can be found in Appendix B.

Figure 3.21: Motor Vehicle Occupant Crash Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

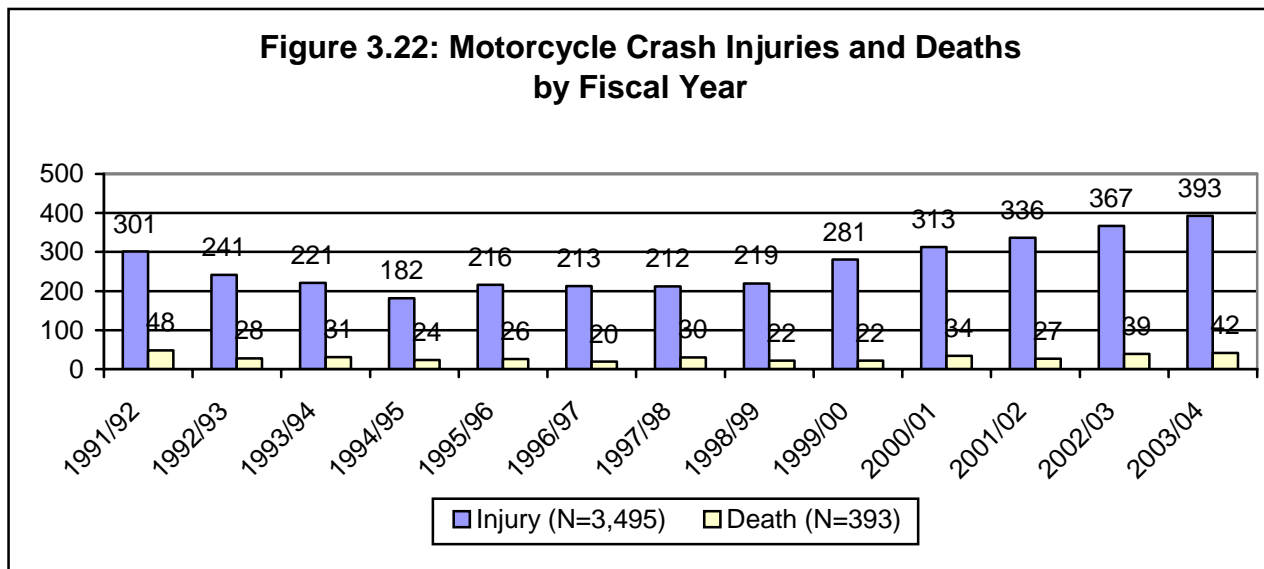
Please note there were 1,112 injuries and 15 deaths with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data: FY 2003/04; Population estimates, SANDAG.

Motorcycle Crash Injuries

On average, for every trauma death due to a motorcycle crash during FY 2003/04, there were over 9 more severe injuries from such a crash.

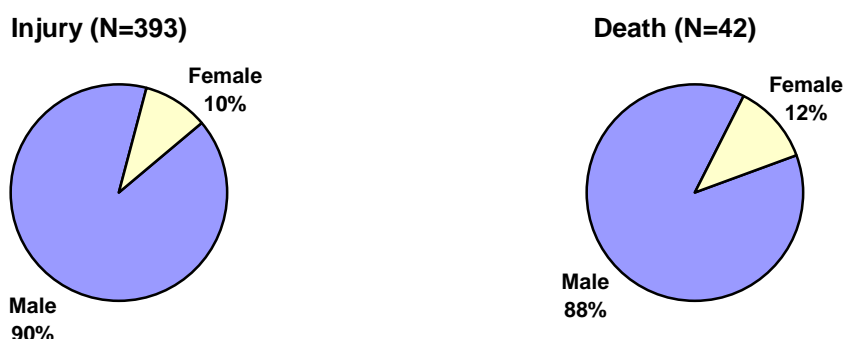
California enacted its mandatory helmet law for all motorcycle riders in 1991. From FY 1991/92 to 1994/95, the number of injuries dropped 40%. Since FY 1994/95, the annual number of injuries has doubled. Motorcycle injuries and deaths increased by 7% from FY 2002/03 to FY 2003/04.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2003/04

The majority of people who were injured or killed in motorcycle crashes during FY 2003/04 were male: 90% of injuries and 88% of deaths. The highest rate of injury was in males 20-24 years of age (52 per 100,000).

Figure 3.23: Motorcycle Crash Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

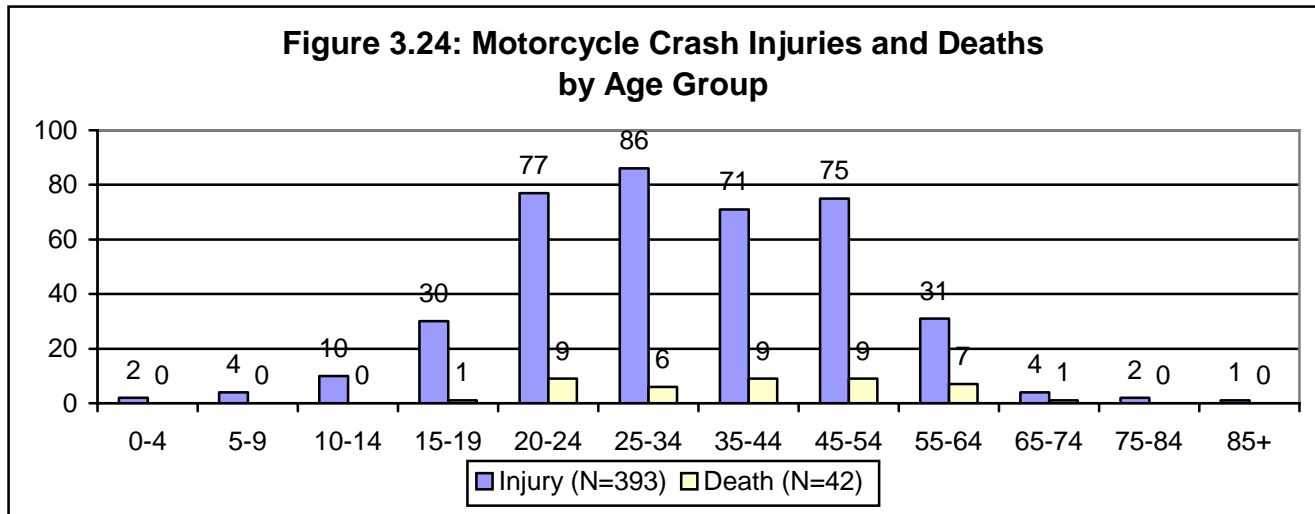
Table 3.3: Number and Rate* (per 100,000) of Motorcycle Crash Injury and Death by Age Group and Gender

	Injury						Death							
	Male		Female		Total		Male		Female		Total		Overall Total	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	2	*	0	-	2	*	0	-	0	-	0	-	2	*
5-9	3	*	1	*	4	*	0	-	0	-	0	-	4	*
10-14	8	7.12	2	*	10	4.52	0	-	0	-	0	-	10	4.52
15-19	27	22.84	3	*	30	13.29	1	*	0	-	1	*	31	13.74
20-24	69	51.69	8	7.59	77	32.24	9	6.74	0	-	9	3.77	86	36.01
25-34	78	32.31	8	3.55	86	18.44	5	2.07	1	*	6	1.29	92	19.72
35-44	65	27.95	6	2.59	71	15.31	7	3.01	2	*	9	1.94	80	17.25
45-54	68	34.78	7	3.43	75	18.78	8	4.09	1	*	9	2.25	84	21.03
55-64	29	23.93	2	*	31	12.24	6	4.95	1	*	7	2.76	38	15.00
65-74	4	*	0	-	4	*	1	*	0	-	1	*	5	3.12
75-84	1	*	1	*	2	*	0	-	0	-	0	-	2	*
85+	1		0		1		0		0		0		1	
Total	355	23.63	38	2.52	393	13.04	37	2.46	5	0.33	42	1.39	435	14.44

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04; Population estimates, SANDAG.

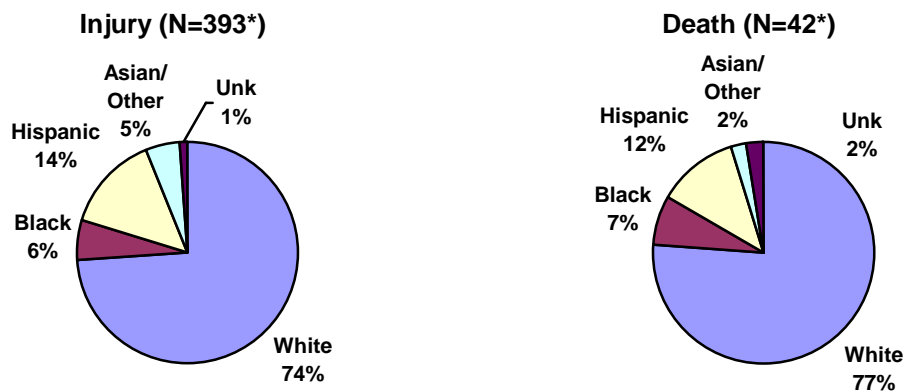
*Rates not calculated on fewer than five incidents

Those who were injured in motorcycle crashes were primarily younger adults, with 41% between 20 and 34 years of age.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Figure 3.25: Motorcycle Crash Injuries and Deaths by Race/Ethnicity

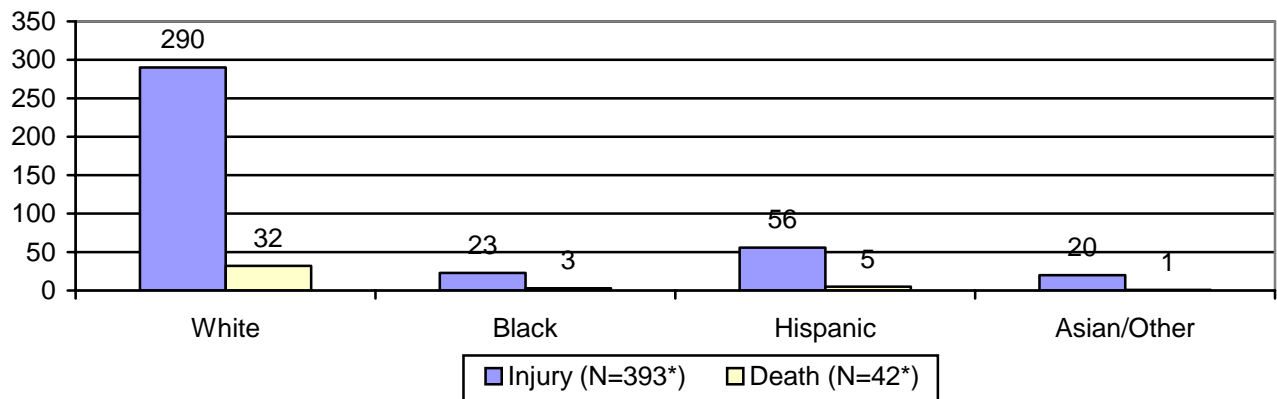


*Totals include four injuries and one death of unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

During FY 2003/04, the White population had the highest incidence and rate of deaths and severe injuries due to motorcycle crashes. Seventy-four percent of severe injuries and 77% of deaths occurred in the White population, which made up about 54% of the total county population.

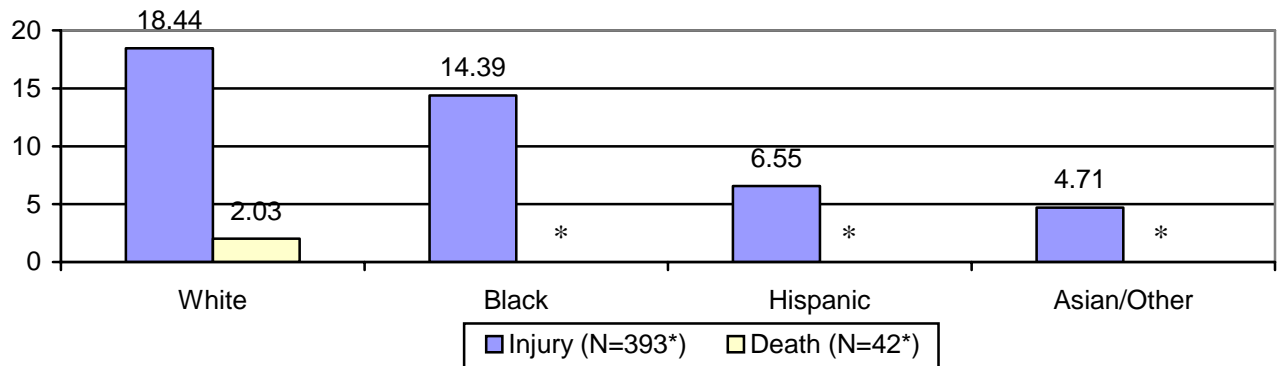
Figure 3.26: Motorcycle Crash Injuries and Deaths by Race/Ethnicity



*Totals include four injuries and one death with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Figure 3.27: Motorcycle Crash Injury and Death Rates by Race/Ethnicity



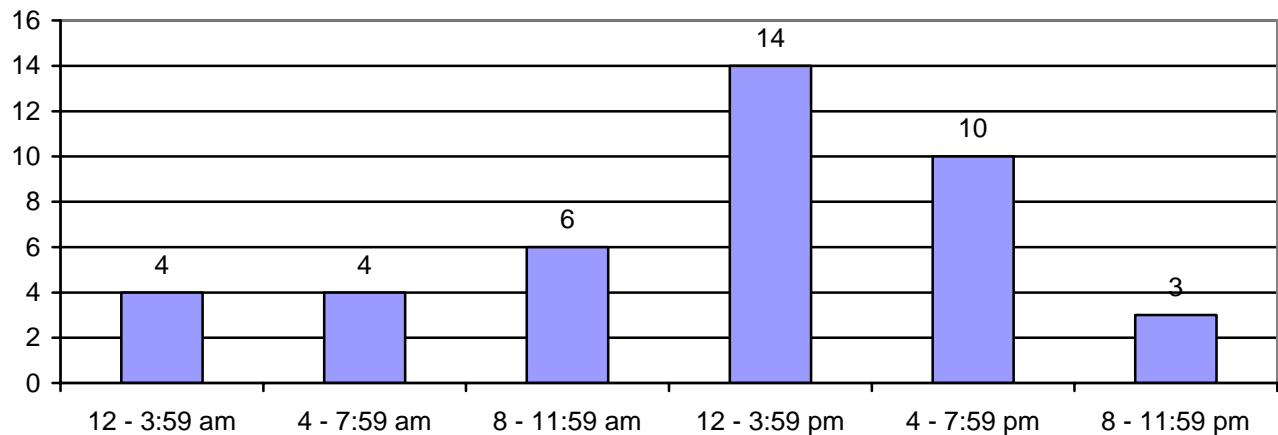
*Rates not calculated on fewer than five incidents

**Totals include four injuries and one death with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Fatal motorcycle crashes occurred primarily in the afternoon and early evening hours, with 59% occurring between noon and 8 p.m. Patient arrivals at trauma centers were also highest from noon to 8 p.m., with 53% of patients, although there was also a minor spike in patient arrivals during the 1 a.m. hour.

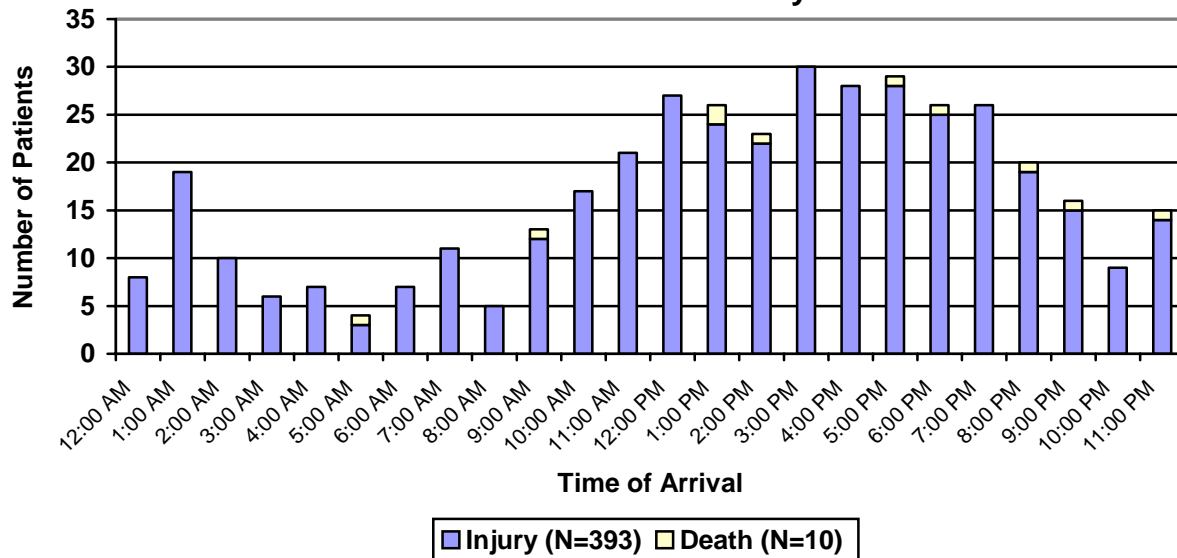
Figure 3.28: Motorcycle Crash Deaths by Known Time of Injury



There was one death with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2003/04

Figure 3.29: Motorcycle Crash Injuries and Deaths by Hour of Arrival at Trauma Facility



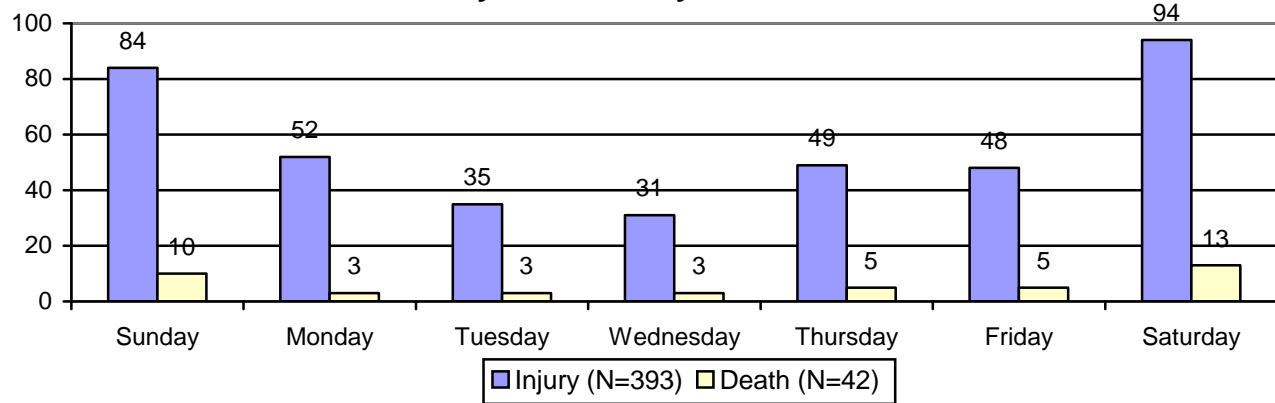
All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

*Note: limited to patients arriving at trauma facilities (deaths on scene or at non-trauma facilities not applicable)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

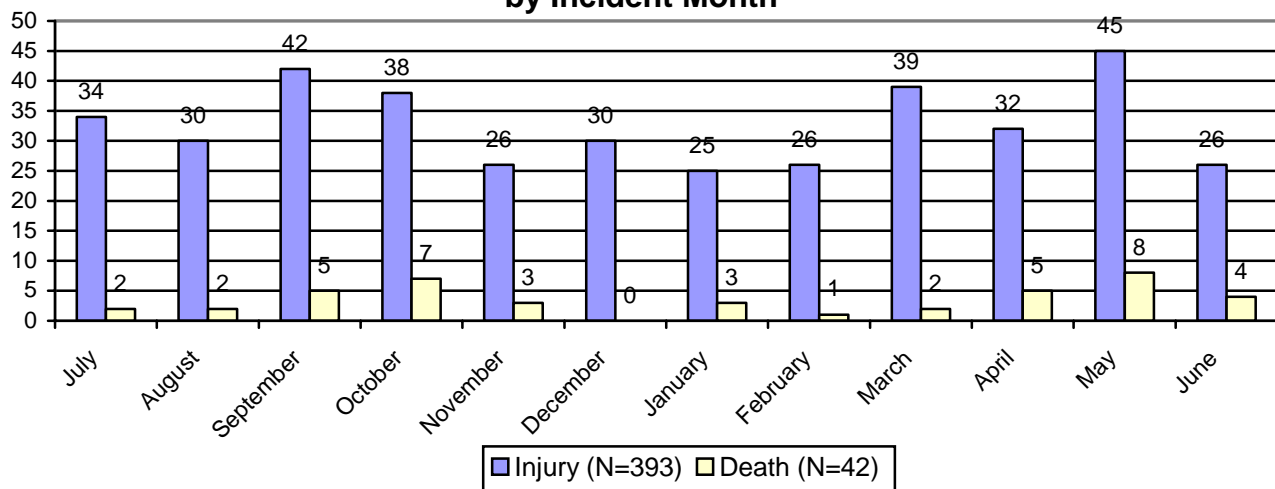
Forty five percent of injuries and 55% of deaths occurred on Saturdays and Sundays. May was the month with the highest number of motorcycle crash injuries, while May and October had the greatest number of deaths.

**Figure 3.30: Motorcycle Crash Injuries and Deaths
by Incident Day of Week**



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

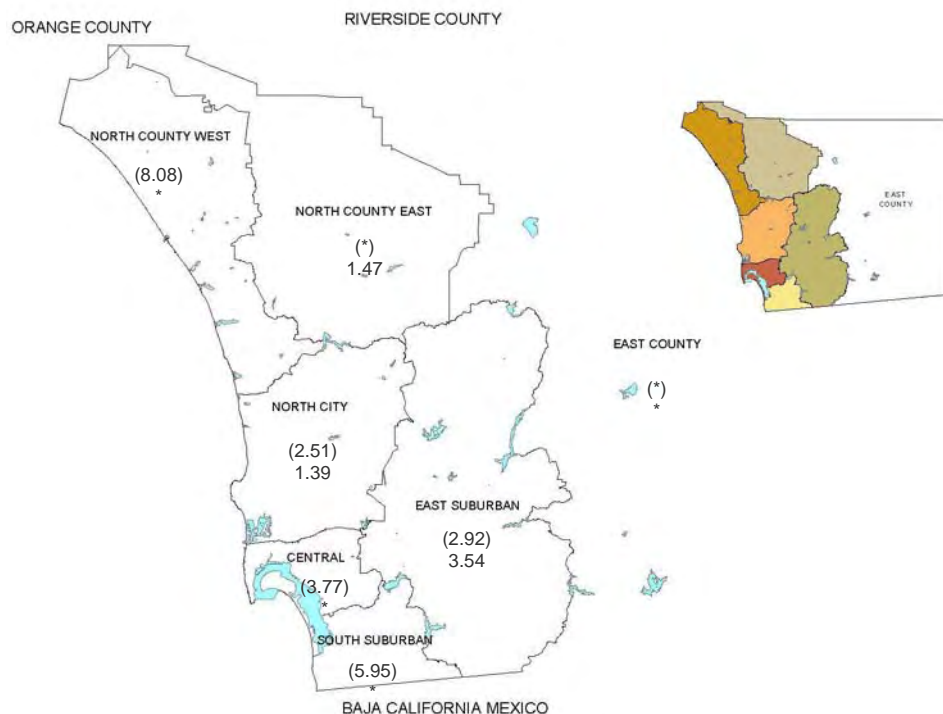
**Figure 3.31: Motorcycle Crash Injuries and Deaths
by Incident Month**



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 29% of non-fatal motorcycle injuries and for 100% of deaths from motorcycle crashes. The East Suburban MSA had the highest death rate due to motorcycle crashes, while the highest rate of nonfatal injuries was in the North County West MSA. Population estimates for each of the MSAs can be found in Appendix B.

Figure 3.32: Motorcycle Crash Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

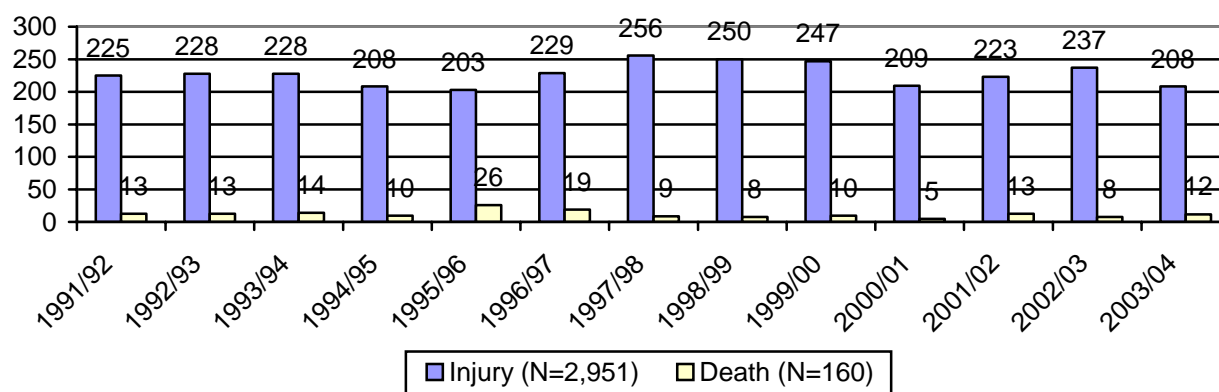
Please note there were 280 injuries with unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04. Population estimates, SANDAG.

Pedalcycle Crash Injuries

The ratio of deaths to non-fatal pedalcycle injuries was much lower than for other causes of injury. Compared to the ratio for all causes of injury, in which there was one death for every six nonfatal major trauma victims, that ratio for pedalcyclists during FY 2003/04 was one death per 17 nonfatal injuries.

Figure 3.33: Pedalcycle Crash Injuries and Deaths by Fiscal Year



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2003/04

Injuries and deaths related to pedalcycle crashes were much more likely to happen to males than females. The highest age and sex-specific injury rate was in 10 to 14 year old boys (29 per 100,000).

Figure 3.34: Pedalcycle Crash Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

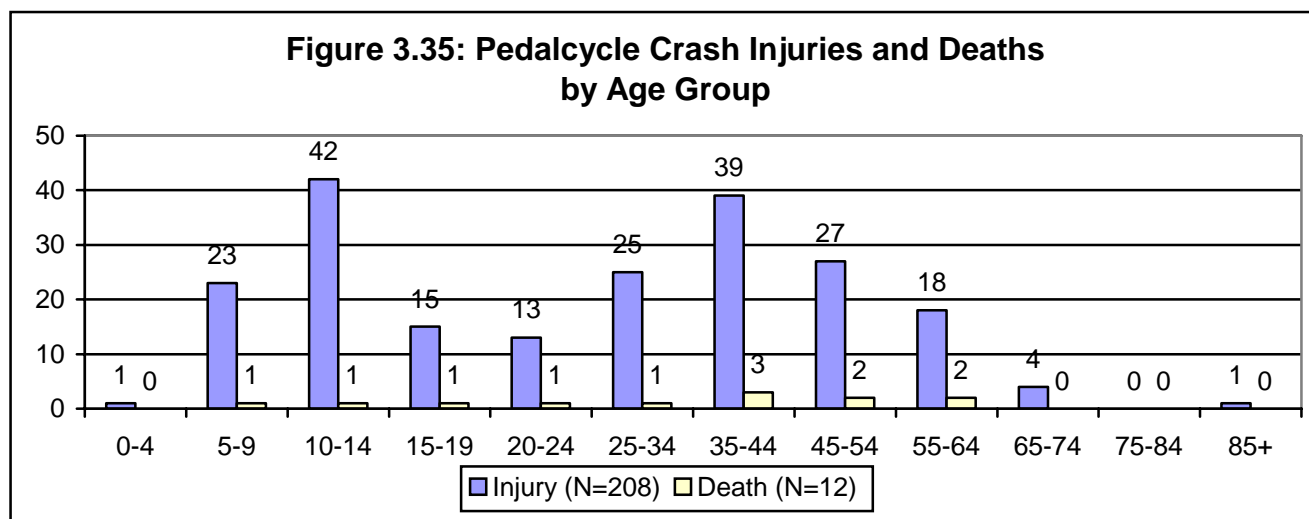
Table 3.4: Number and Rate* (per 100,000) of Pedalcycle Crash Injury by Age Group and Gender

Age Group	Male		Female		Total	
	Number	Rate	Number	Rate	Number	Rate
0-4	1	*	0	-	1	*
5-9	20	20.09	3	*	23	11.55
10-14	33	29.37	9	8.28	42	19.00
15-19	14	11.84	1	*	15	6.65
20-24	11	8.24	2	*	13	5.44
25-34	20	8.29	5	2.22	25	5.36
35-44	35	15.05	4	*	39	8.41
45-54	22	11.25	5	2.45	27	6.76
55-64	16	13.20	2	*	18	7.10
65-74	2	*	2	*	4	*
75-85	0	-	0	-	0	-
85+	1	*	0	-	1	*
Total	175	11.65	33	2.18	208	6.90

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04; Population estimates, SANDAG

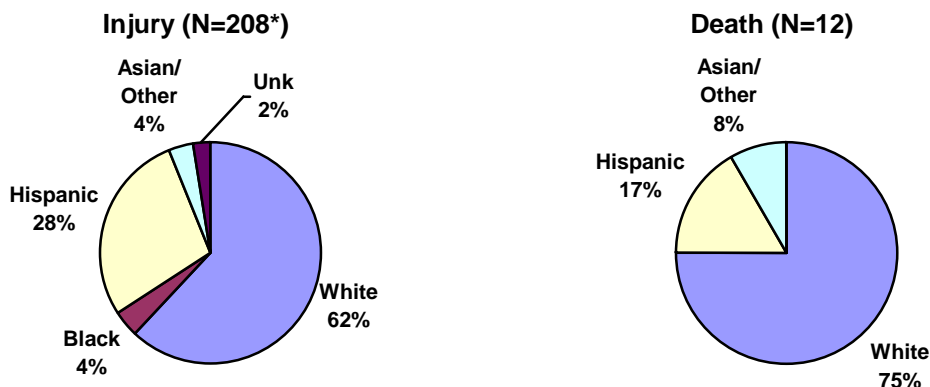
*Rates not calculated on fewer than five incidents

While the highest injury rates were seen in boys between 10 and 14 years of age, 7 of the 12 people who died in pedalcycle crashes (58%) were 35 years of age or older.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Figure 3.36: Pedalcycle Crash Injuries and Deaths by Race/Ethnicity

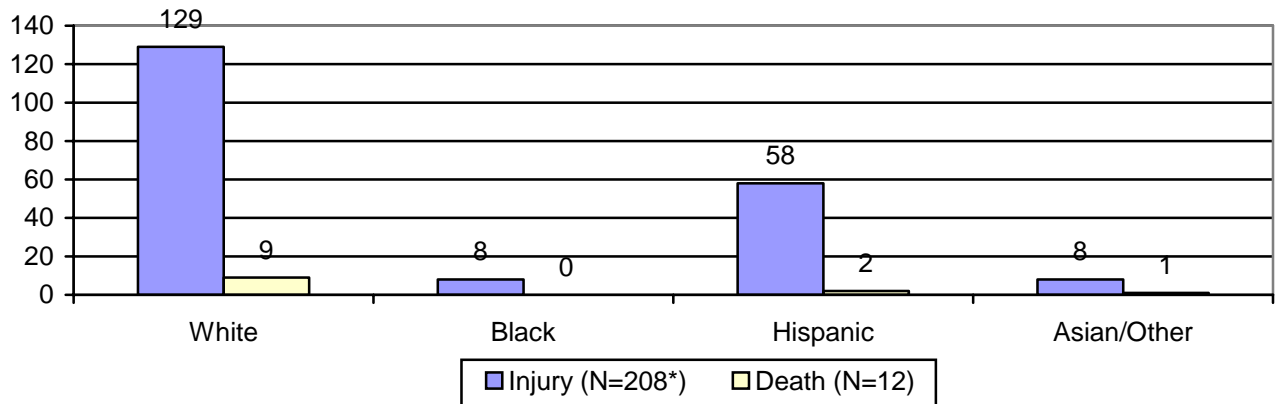


*Totals include five injuries with unspecified race/ethnicity

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Rates of pedalcycle crash injury were highest among Whites, followed by Hispanic, Black, and Asian populations.

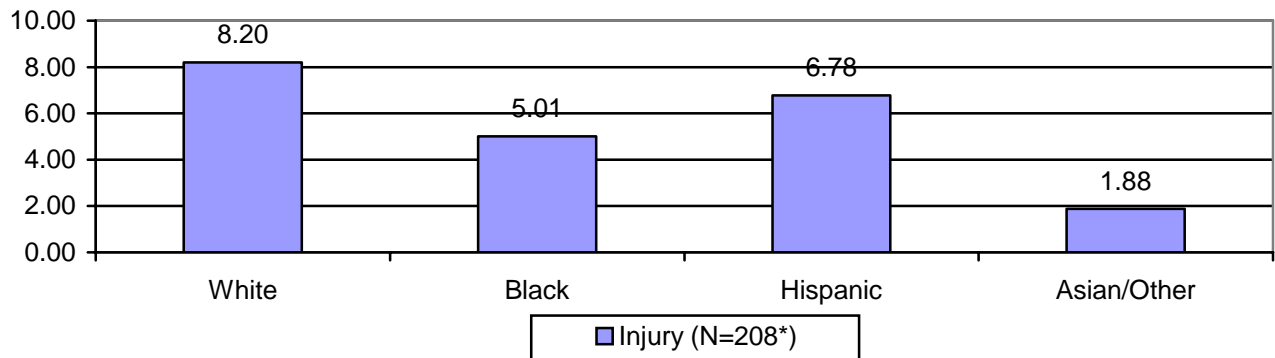
Figure 3.37: Pedalcycle Crash Injuries and Deaths by Race/Ethnicity



*Totals include five injuries with unspecified race/ethnicity

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

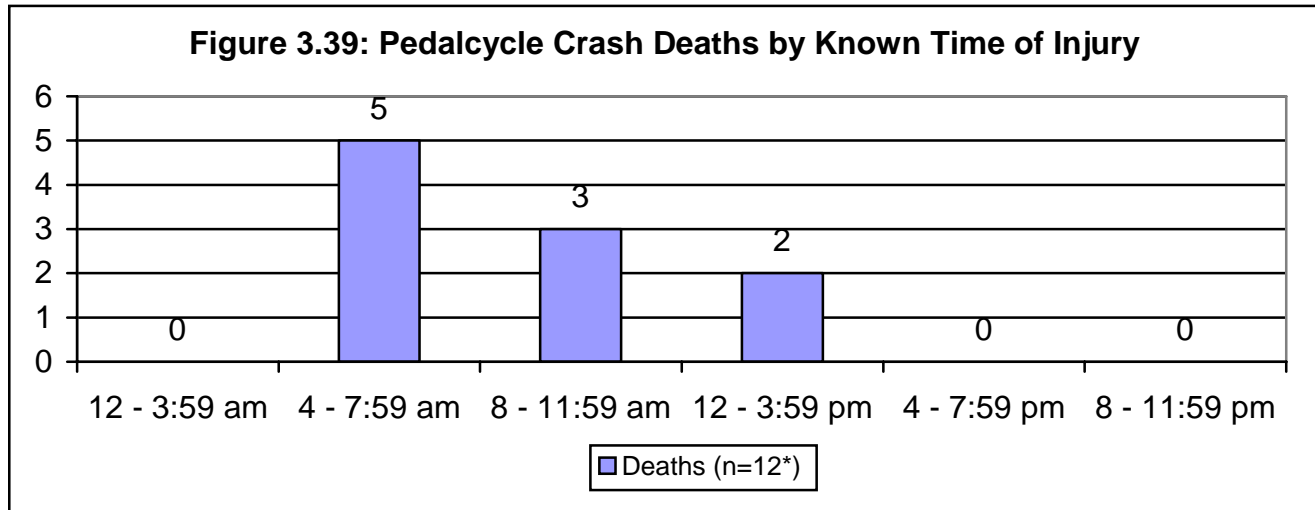
Figure 3.38: Pedalcycle Crash Injury Rates by Race/Ethnicity



*Totals include five injuries with unspecified race/ethnicity

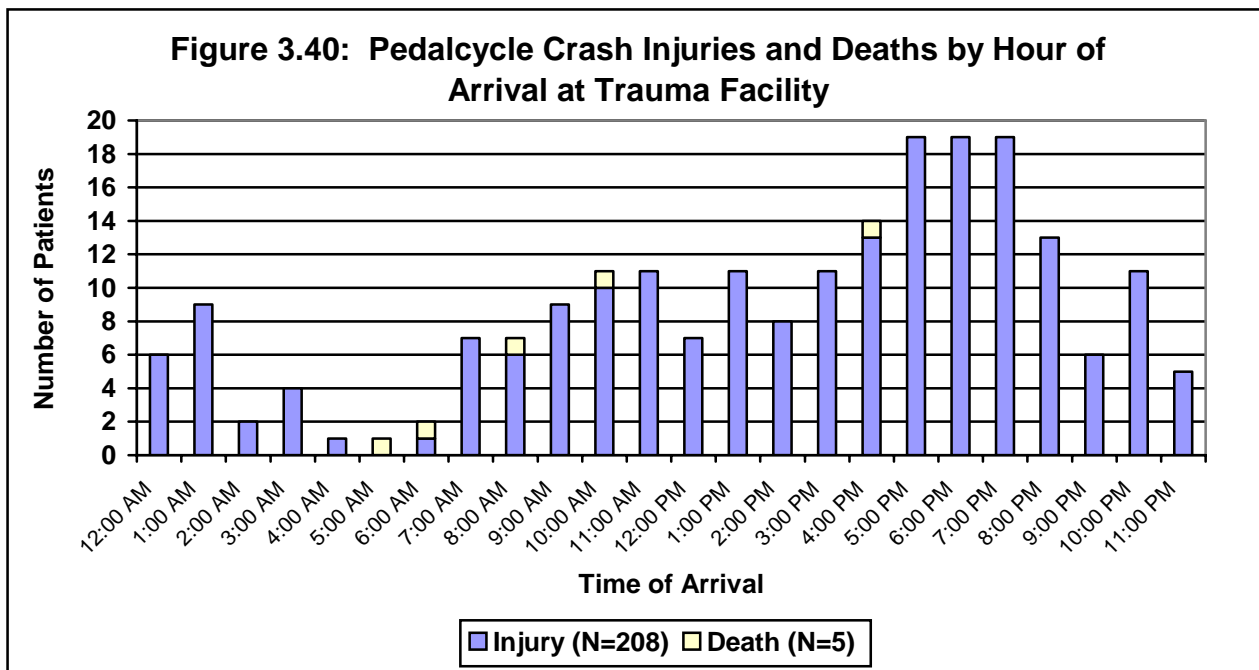
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Half of pedalcyclists who died were injured in the early morning hours, between 4 and 8 a.m., while the peak hours for trauma center admissions were between 5 and 8 in the evening.



*Total includes two deaths with unknown time of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2003/04

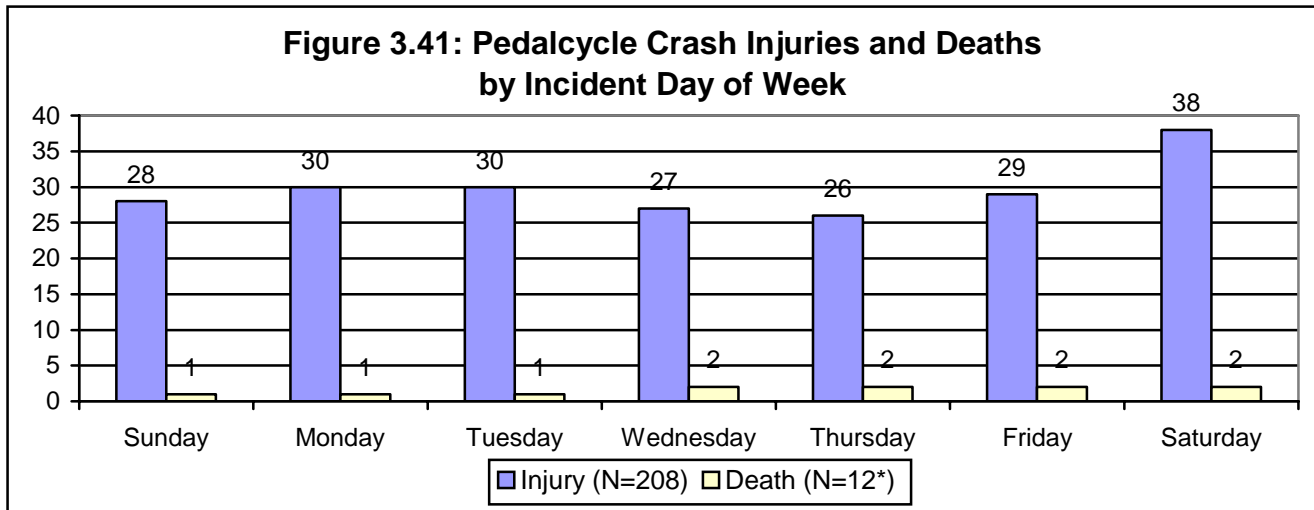


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

*Note: limited to patients arriving at trauma facilities (deaths on scene or at non-trauma facilities not applicable)

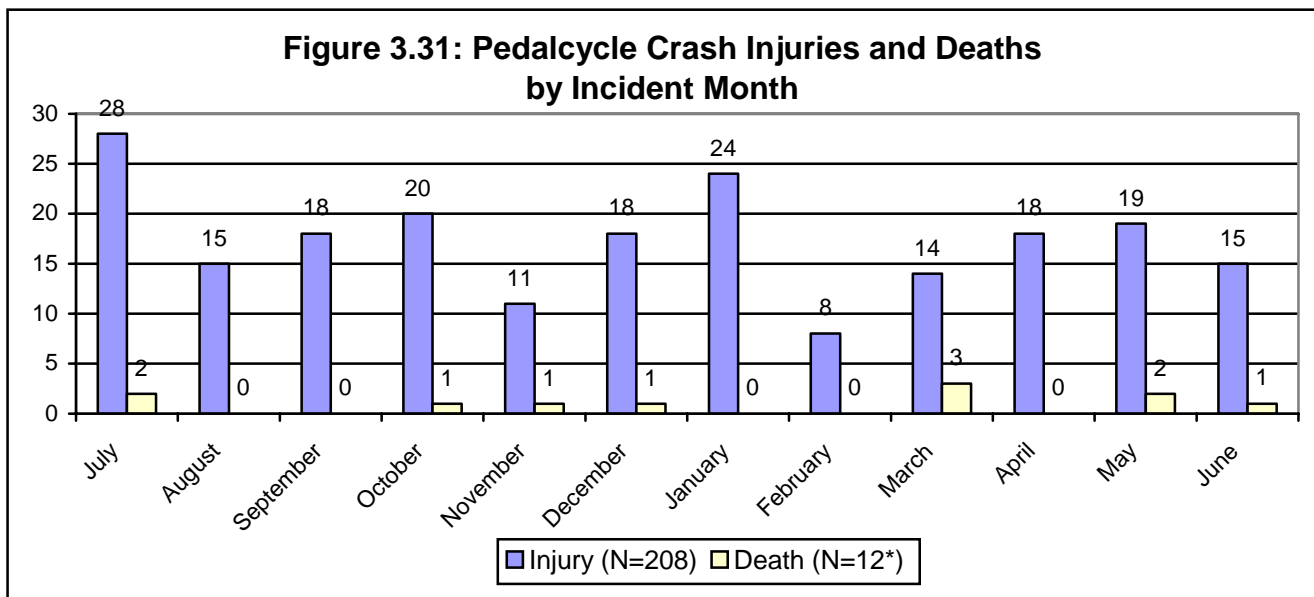
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Pedalcyclists were most likely to be injured on Saturdays, while the busiest month for pedalcycle injuries was July.



*Totals include one death with unspecified date of injury.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

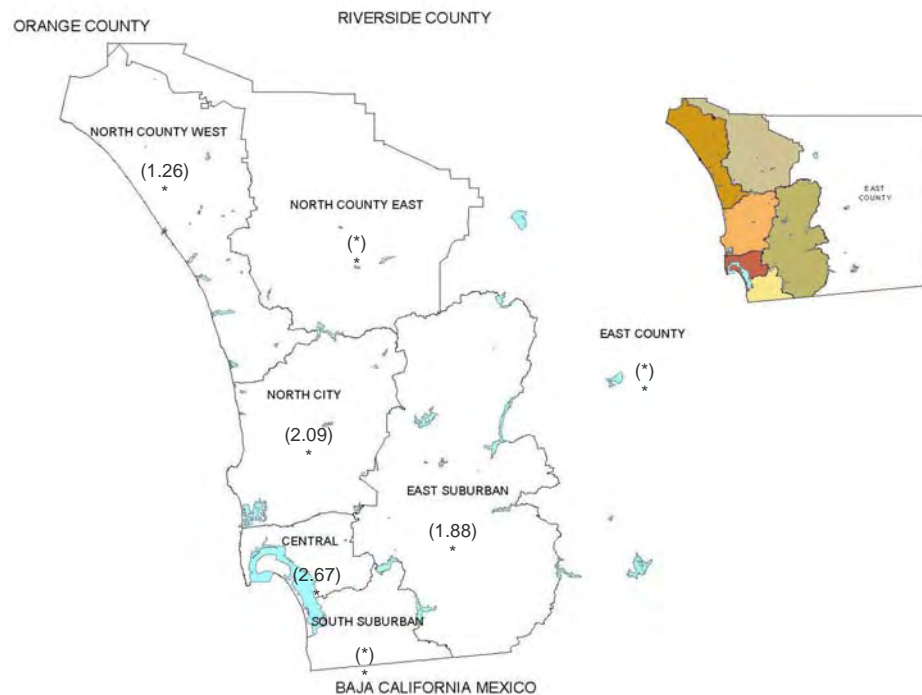


*Totals include one death with unspecified date of injury.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 24% of non-fatal pedalcycle injuries and for 100% of deaths from pedalcycle crashes. The Central MSA had the highest rate of pedalcycle injury (2.67 per 100,000). Numbers of deaths were too low to calculate rates for any MSA. Population estimates for each of the MSAs can be found in Appendix B.

Figure 3.43: Pedalcycle Crash Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

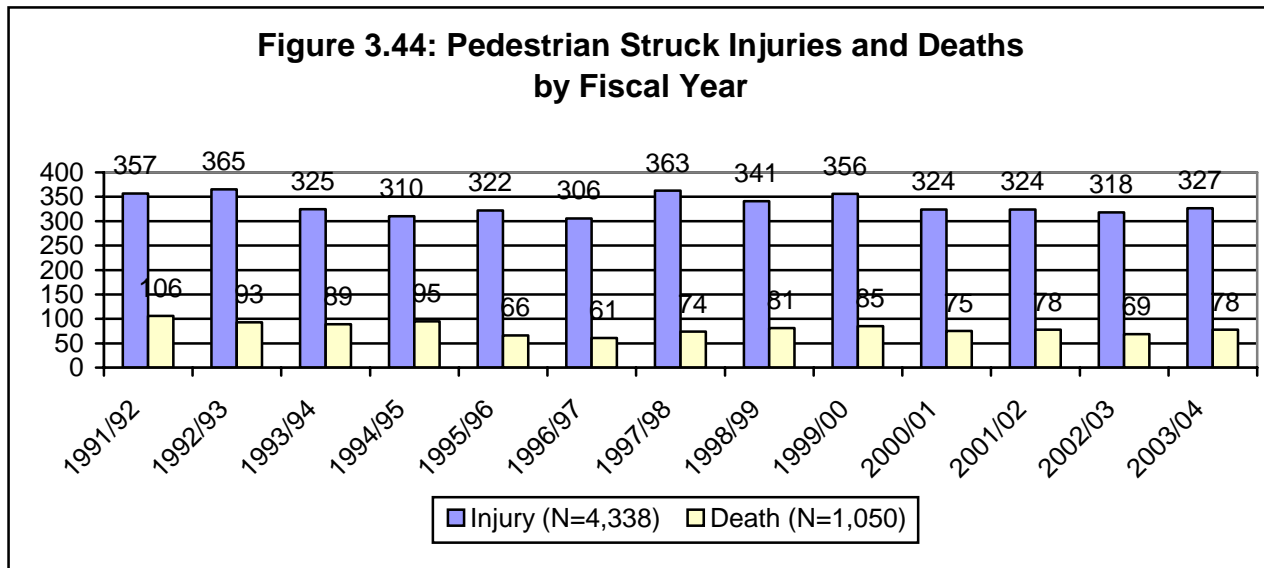
*Rates not calculated on fewer than five incidents.

Please note there were 158 injuries with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04. Population estimates, SANDAG.

Pedestrian Injuries

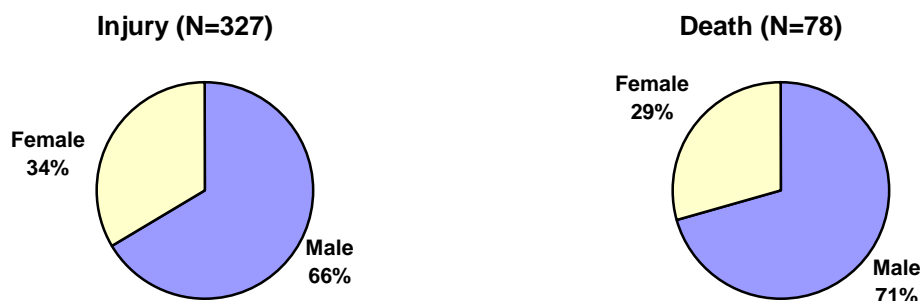
From FY 2002/03 to 2003/04 the number of injuries increased by 3%, while deaths due to pedestrian crashes increased by 13%. These changes were not found to be statistically significant.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2003/04

As with other transportation related injuries, males had a higher rate of death and severe injury as pedestrians compared to females for nearly all age groups. Males accounted for 66% of severe injuries and 71% of deaths. Older men had the highest rates of injury (27 per 100,000 among men 65 to 74 years of age).

Figure 3.45: Pedestrian Struck Injuries and Deaths by Gender



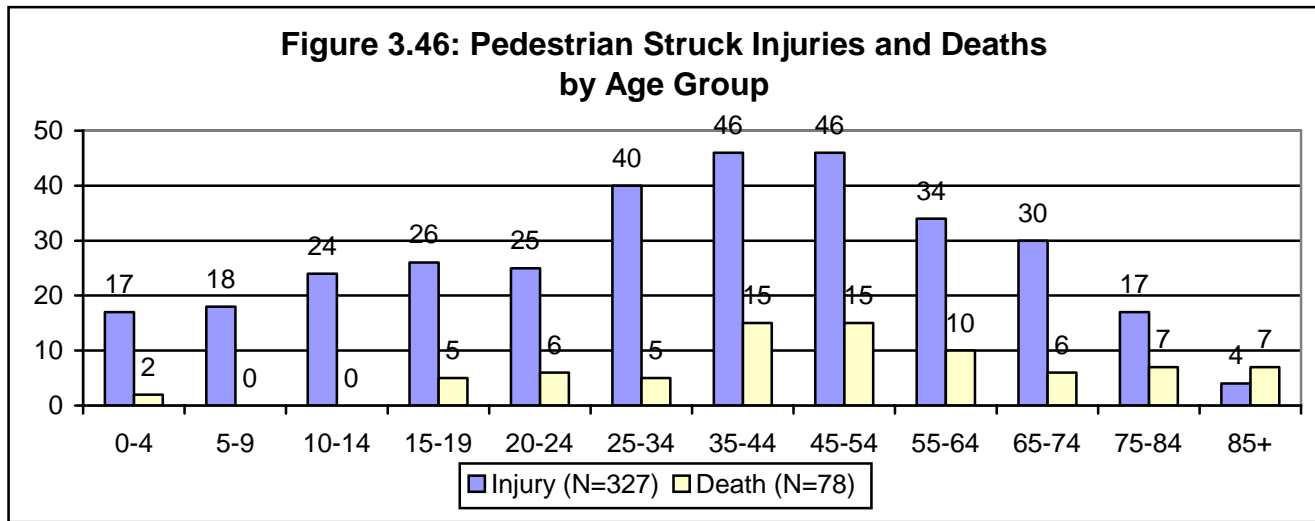
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Table 3.5: Number and Rate* (per 100,000) of Pedestrian Struck Injury and Death by Age Group and Gender

	Injury						Death							
	Male		Female		Total		Male		Female		Total		Overall Total	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	12	11.17	5	4.61	17	7.87	1	*	1	*	2	*	19	8.80
5-9	12	12.05	6	6.02	18	9.04	0	-	0	-	0	-	18	9.04
10-14	13	11.57	11	10.12	24	10.86	0	-	0	-	0	-	24	10.86
15-19	19	16.07	7	6.52	26	11.52	4	*	1	*	5	2.22	31	13.74
20-24	20	14.98	5	4.75	25	10.47	6	4.49	0	-	6	2.51	31	12.98
25-34	26	10.77	14	6.22	40	8.58	4	*	1	*	5	1.07	45	9.65
35-44	28	12.04	18	7.78	46	9.92	12	5.16	3	*	15	3.23	61	13.15
45-54	36	18.41	10	4.90	46	11.52	11	5.63	4	*	15	3.76	61	15.27
55-64	20	16.50	14	10.59	34	13.42	9	7.43	1	*	10	3.95	44	17.37
65-74	20	27.36	10	11.45	30	18.70	3	*	3	*	6	3.74	36	22.43
75-84	7	13.58	10	13.89	17	13.76	3	*	4	*	7	5.67	24	19.43
85+	4	*	0	-	4	*	2	*	5	17.23	7	15.47	11	24.31
Total	217	14.44	110	7.28	327	10.85	55	3.66	23	1.52	78	2.59	405	13.44

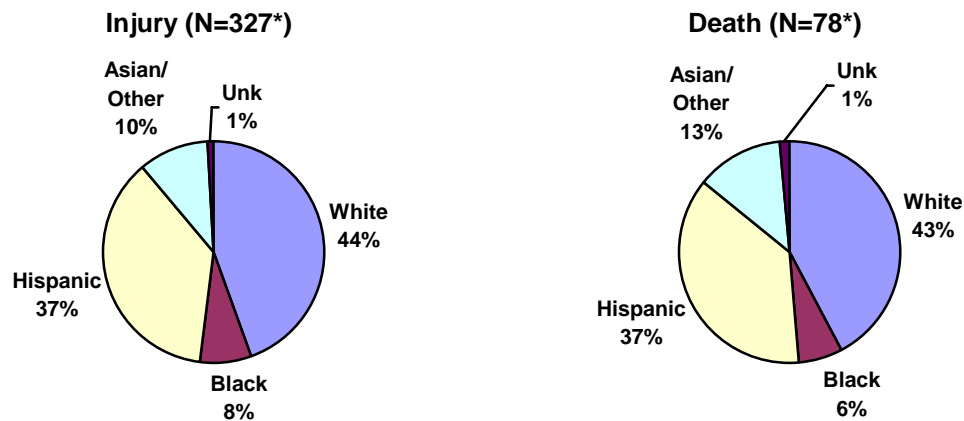
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04; Population estimates, SANDAG

*Rates not calculated on fewer than five incidents



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

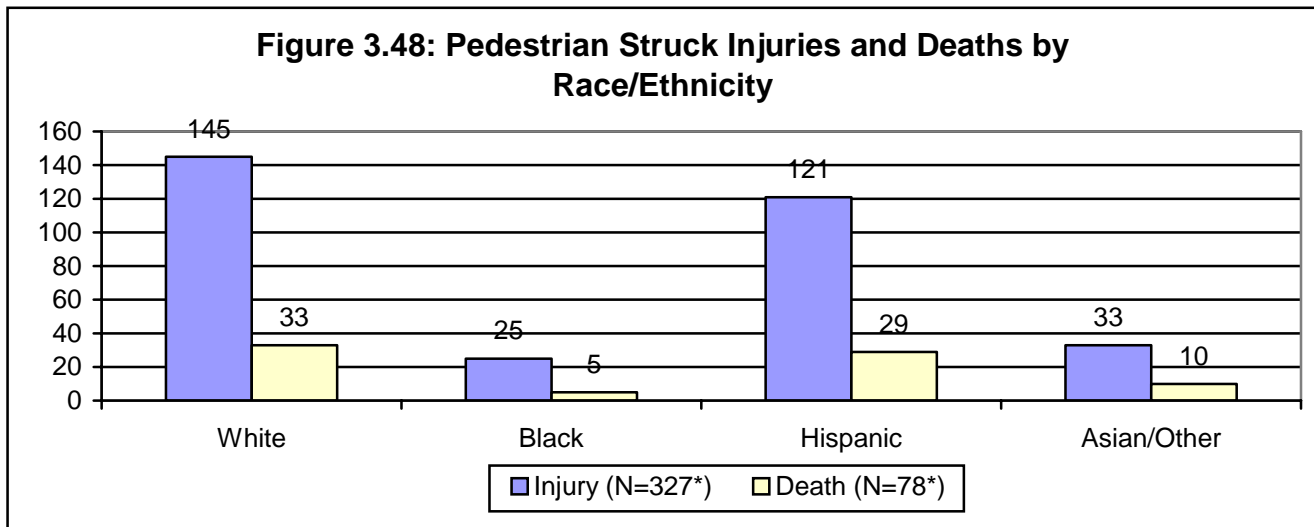
Figure 3.47: Pedestrian Struck Injuries and Deaths by Race/Ethnicity



*Totals include three injuries and one death with unspecified race/ethnicity.

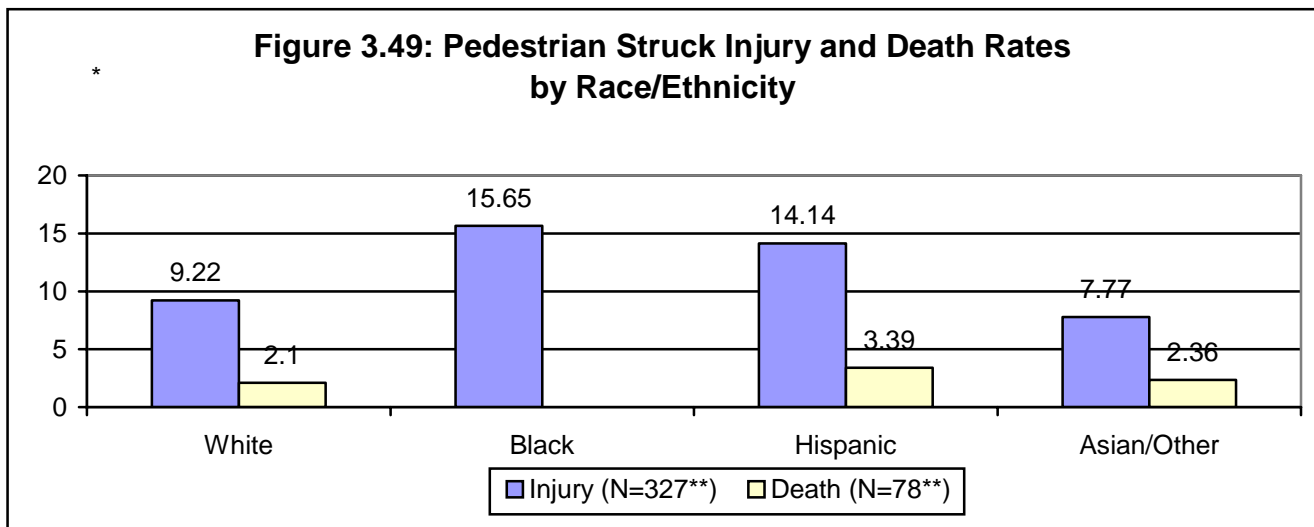
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

The pedestrian injury rate was highest in the Black population (16 per 100,000), while deaths were highest among Hispanics (3.4 per 100,000).



*Totals include three injuries and one death with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04.



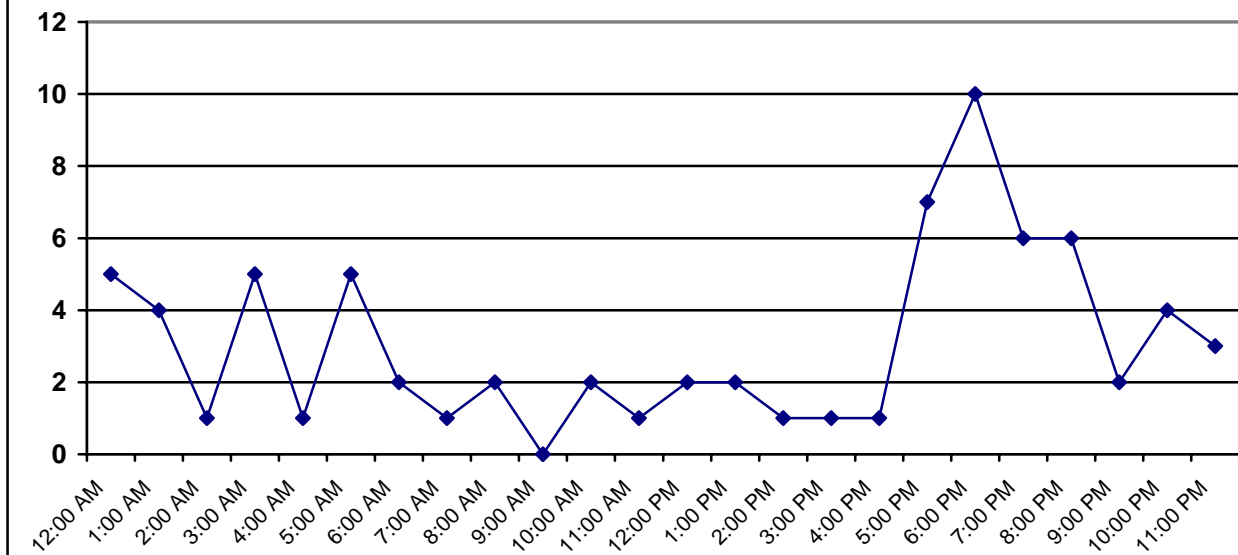
*Rates not calculated on fewer than five incidents.

**Totals include three injuries and one death with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04.

The number of pedestrian deaths was highest during the late afternoon and evening hours, with 39% occurring between 5 and 9 pm. A similar pattern was seen with hour of trauma center admissions, with 35% of admissions occurring between 6 and 11 pm.

Figure 3.50: Pedestrian Struck Deaths by Known Time of Injury

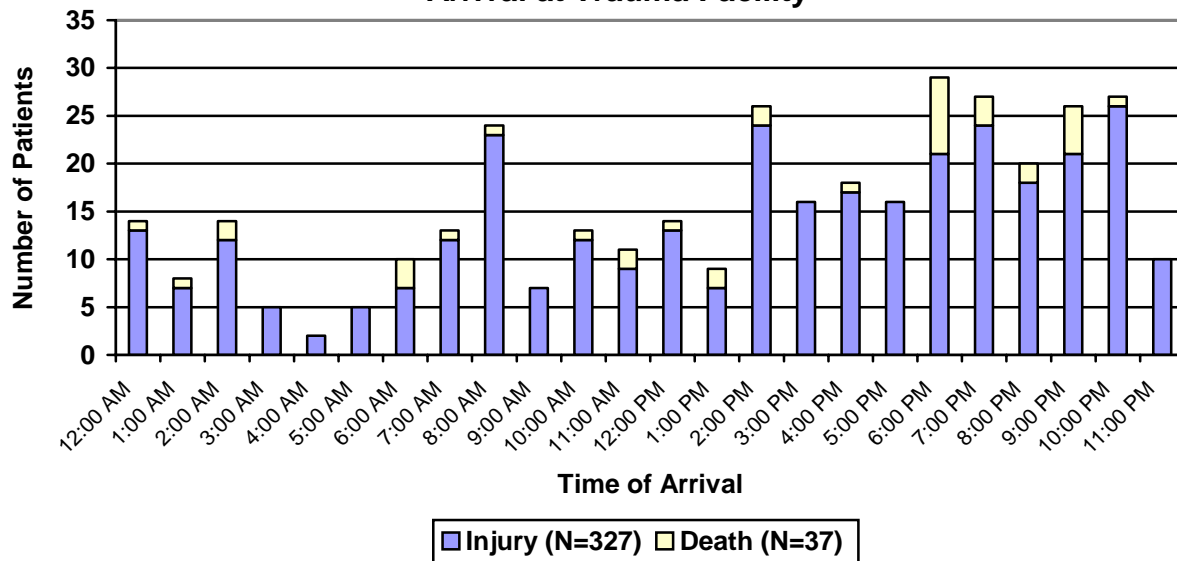


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

There were four deaths with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2003/04

Figure 3.51: Pedestrian Struck Injuries and Deaths by Hour of Arrival at Trauma Facility

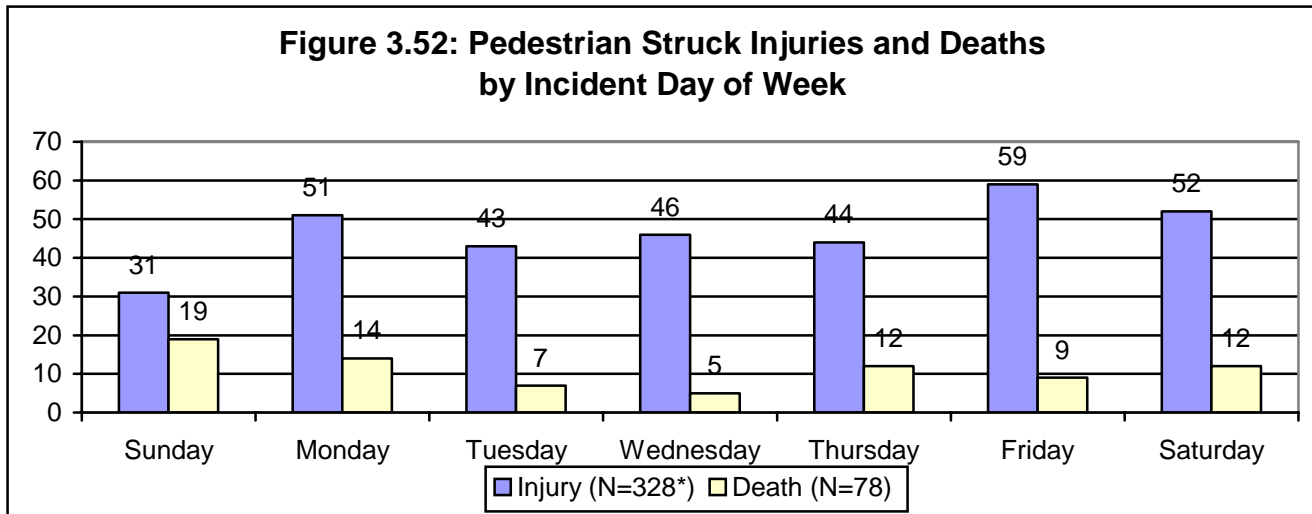


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

*Note: limited to patients arriving at trauma facilities (deaths on scene or at non-trauma facilities not applicable)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

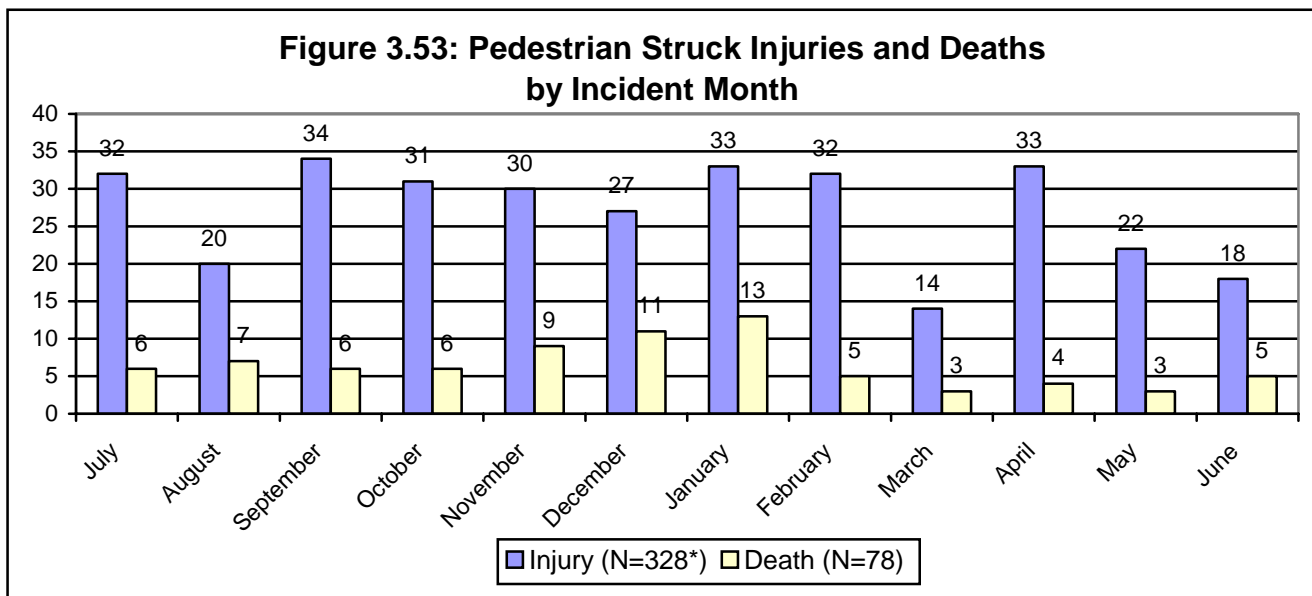
Injuries occurred with highest frequency on Fridays and Saturdays, while pedestrian crashes that resulted in death were most likely to happen on Sundays and Mondays.



*Totals include two injuries with unknown date of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

September was the peak month for transportation related injuries, while January had the highest number of deaths.

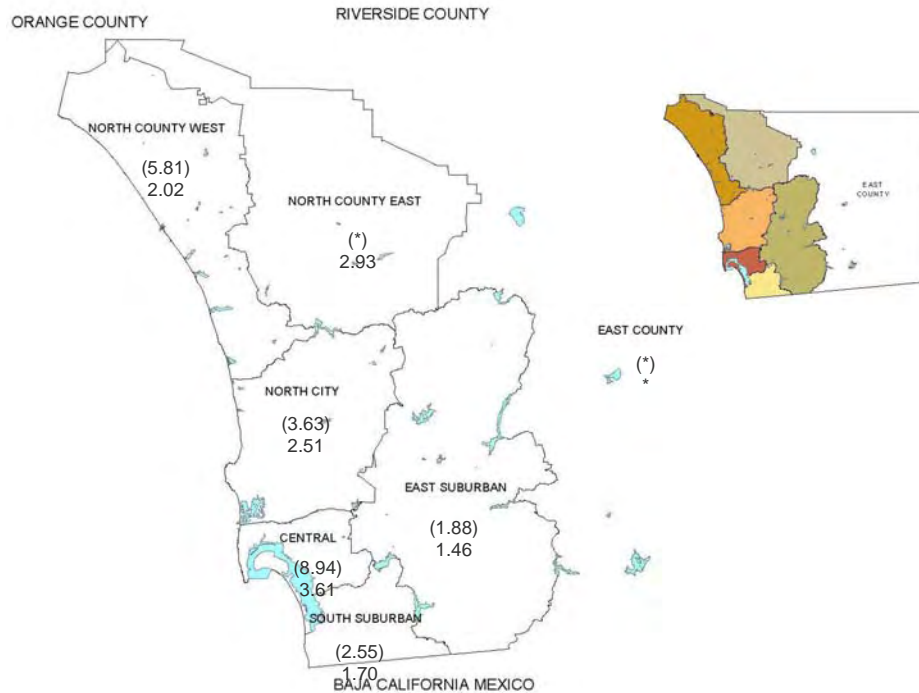


*Totals include two injuries with unknown date of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 38% of non-fatal pedestrian injuries and for 97% of deaths from pedestrian crashes. The Central MSA had the highest rates of both pedestrian injury and death. Population estimates for each of the MSAs can be found in Appendix B.

Figure 3.54: Pedestrian Struck Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

Please note there were 202 injuries and two deaths with an unknown incident zip code.

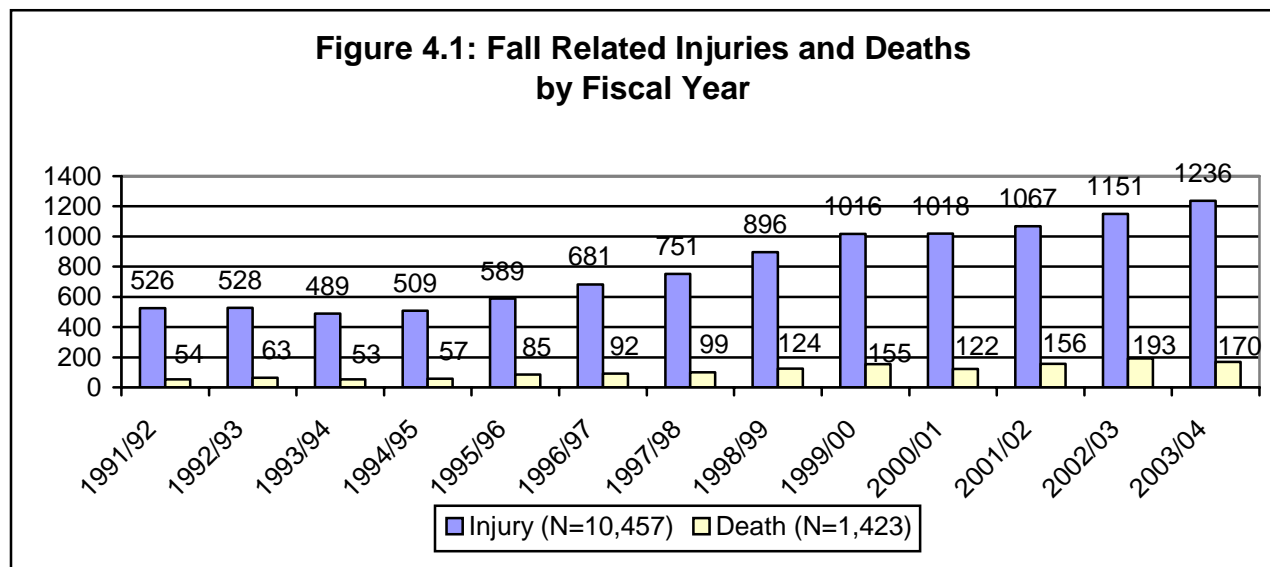
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04; Population estimates, SANDAG.

Other Unintentional Injuries and Deaths

During FY 2003/04, 1,799 trauma patients were injured or killed following a fall or during a sports/recreation activity. Another 287 were unintentionally injured or killed due to a variety of mechanisms that can best be classified as other. These include being struck by machinery/object, struck by falling object, and other unspecified accidents. See Technical Notes for a full listing of mechanisms included in the other category.

Fall Injuries

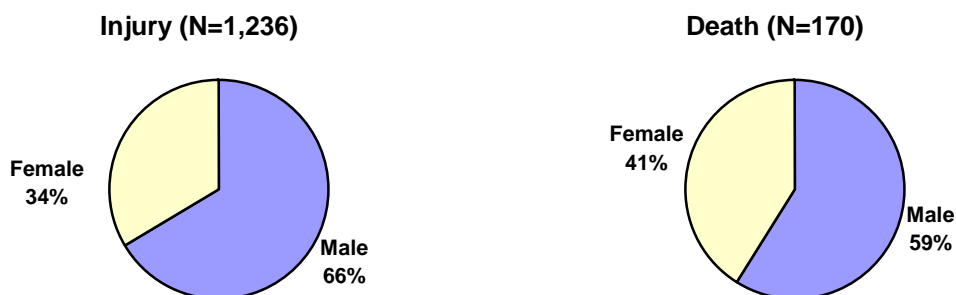
There were 1,236 injuries and 170 deaths resulting from falls in FY 2003/04. Since FY 1993/94, the number of fall injuries has more than doubled, and the number of fatalities from falls has increased more than three-fold.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2003/04

Males accounted for 66% of injuries and 59% of deaths due to falls and had higher rates of both death and injury for all age groups.

Figure 4.2: Fall Related Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04

People over the age of 84 were at greatest risk of severe injury resulting from a fall, followed by 75-84 year olds and 65-74 year olds (256.32, 165.93, and 84.13 per 100,000, respectively).

Table 4.1: Number and Rate (per 100,000) of Fall Related Injury and Death by Age Group and Gender

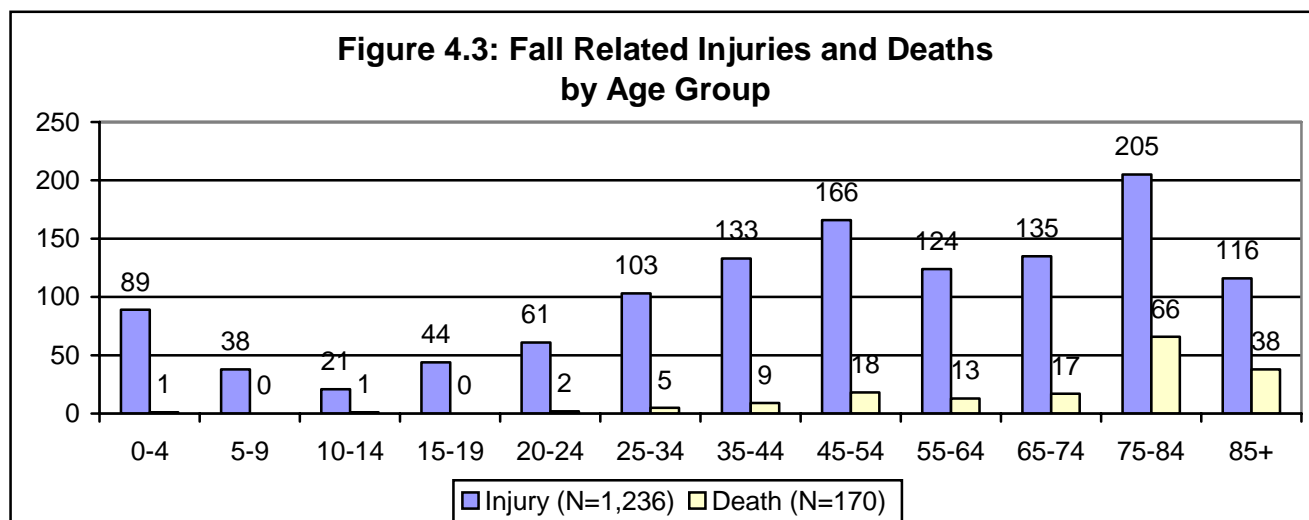
	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	52	48.39	37	34.10	89	41.21	0	-	1	*	1	*	90	41.67
5-9	27	27.12	11	11.04	38	19.08	0	-	0	-	0	-	38	19.08
10-14	14	12.46	7	6.44	21	9.50	0	-	1	*	1	*	22	9.95
15-19	35	29.60	9	8.38	44	19.50	0	-	0	-	0	-	44	19.50
20-24	50	37.46	11	10.44	61	25.54	1	*	1	*	2	*	63	26.38
25-34	77	31.90	26	11.55	103	22.08	3	*	2	*	5	1.07	108	23.15
35-44	111	47.73	22	9.51	133	28.68	8	3.44	1	*	9	1.94	142	30.62
45-54	132	67.51	34	16.67	166	41.56	13	6.65	5	2.45	18	4.51	184	46.06
55-64	90	74.25	34	25.73	124	48.94	9	7.43	4	*	13	5.13	137	54.07
65-74	89	121.73	46	52.66	135	84.13	11	15.05	6	6.87	17	10.59	152	94.72
75-84	96	186.29	109	151.36	205	165.93	34	65.98	32	44.44	66	53.42	271	219.36
85+	47	289.61	69	237.71	116	256.32	21	129.40	17	58.57	38	83.97	154	340.29
Total	821**	54.64	415	27.48	1,236**	41.02	100	6.66	70	4.63	170	5.64	1,405	46.63

*Rates not calculated on fewer than five incidents.

**Totals include one injury with unknown age

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04; Population Estimates, SANDAG

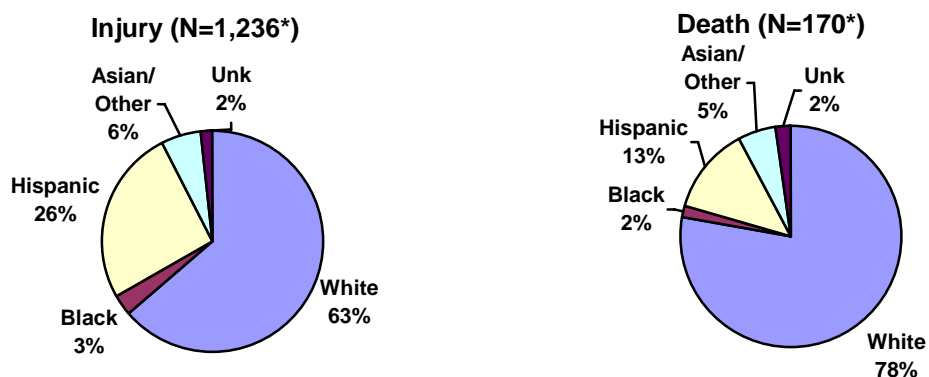
More than one out of every four adults 65 or older who was seriously injured from a fall died from that injury. Seventy-one percent of all fall deaths were in this age group.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

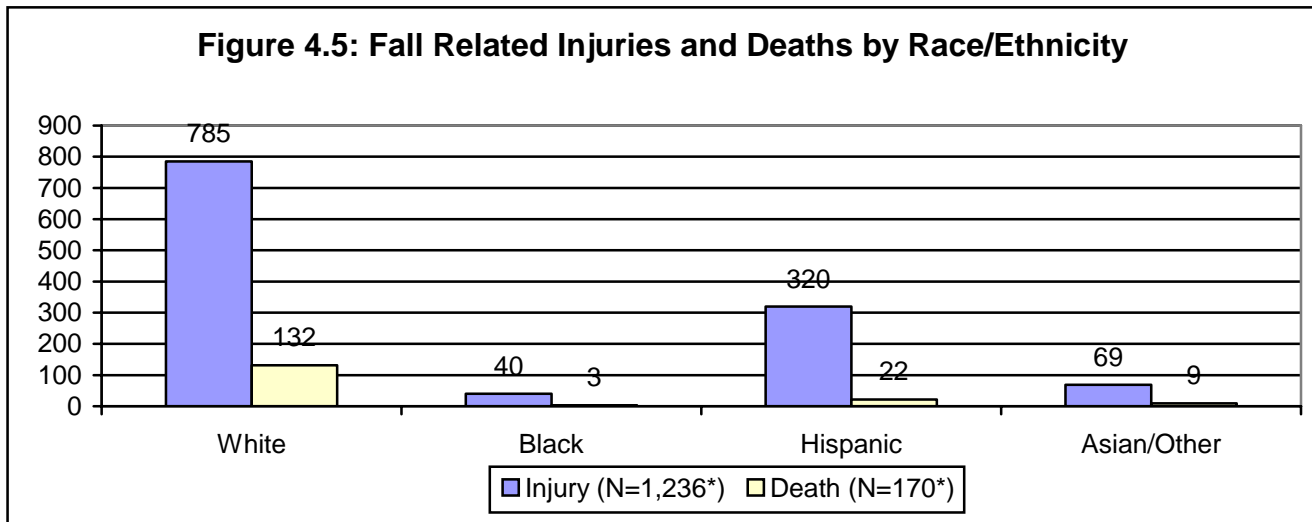
During FY 2003/04, the White population had the highest incidence and rate of injuries and deaths resulting from a fall. Sixty three percent of injuries and 78% of deaths occurred in the White population.

Figure 4.4: Fall Related Injuries and Deaths by Race/Ethnicity



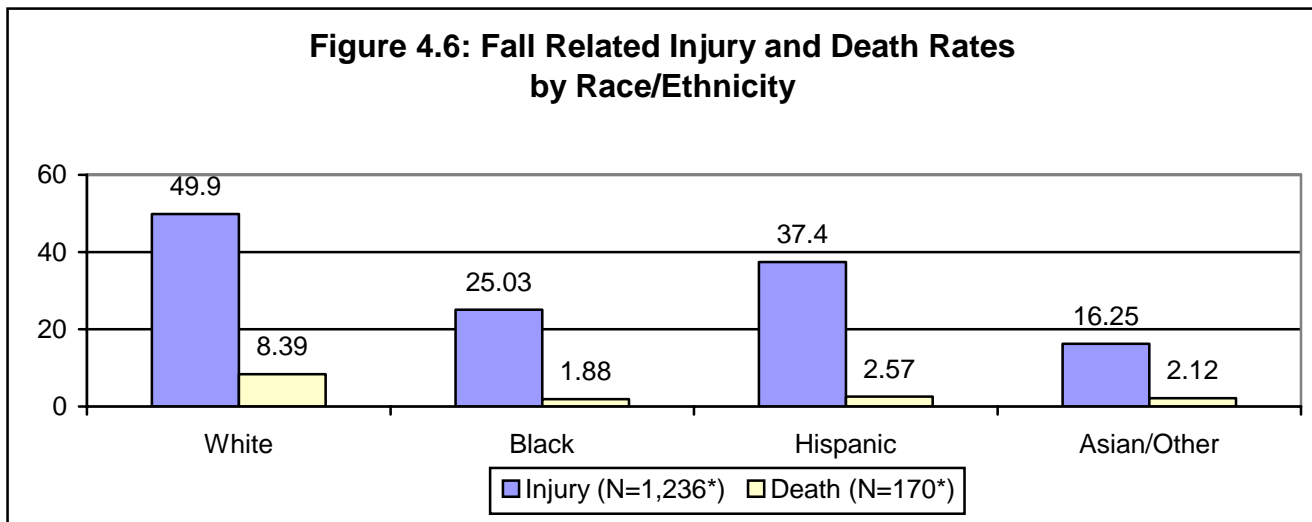
*Totals include 22 injuries and four deaths of unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04

Figure 4.5: Fall Related Injuries and Deaths by Race/Ethnicity

*Totals include 22 injuries and four deaths with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

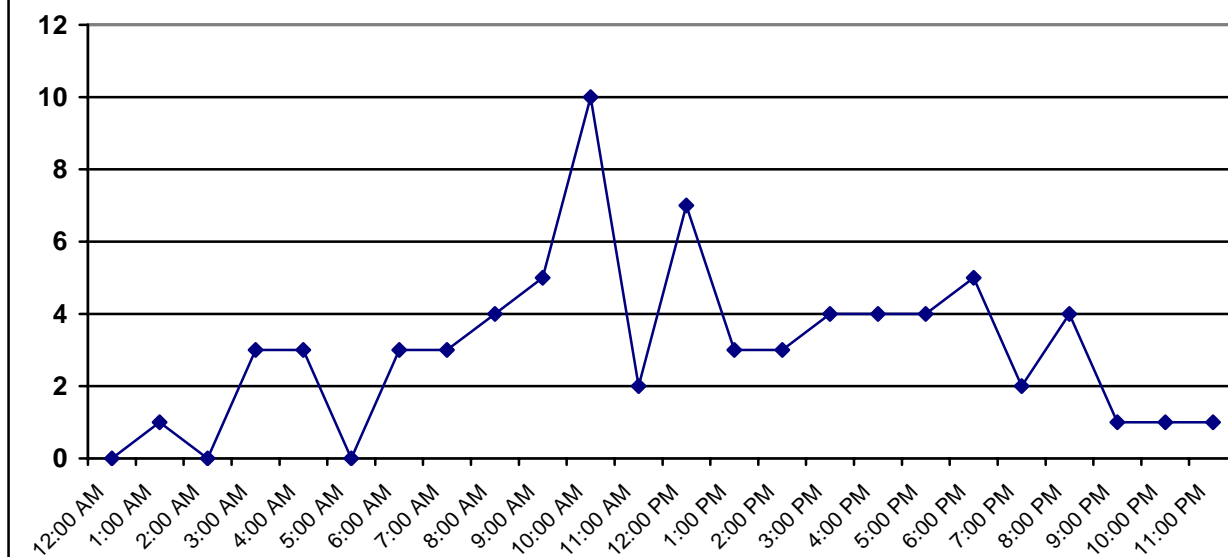
Figure 4.6: Fall Related Injury and Death Rates by Race/Ethnicity

*Totals include 22 injuries and four deaths with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

The peak hour of injury for fall deaths was between 10 and 11 in the morning, while trauma center admissions occurred continuously throughout the day.

Figure 4.7: Fall Related Deaths* by Known Time of Injury

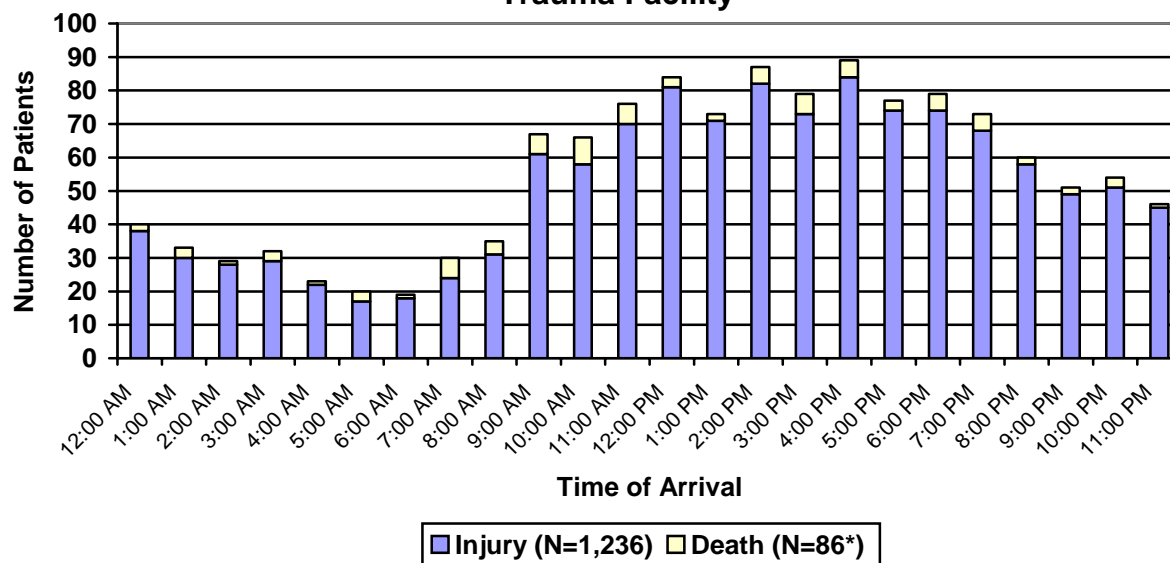


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

*There were 97 deaths with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2003/04

Figure 4.8: Fall Related Injuries and Deaths by Hour of Arrival at Trauma Facility

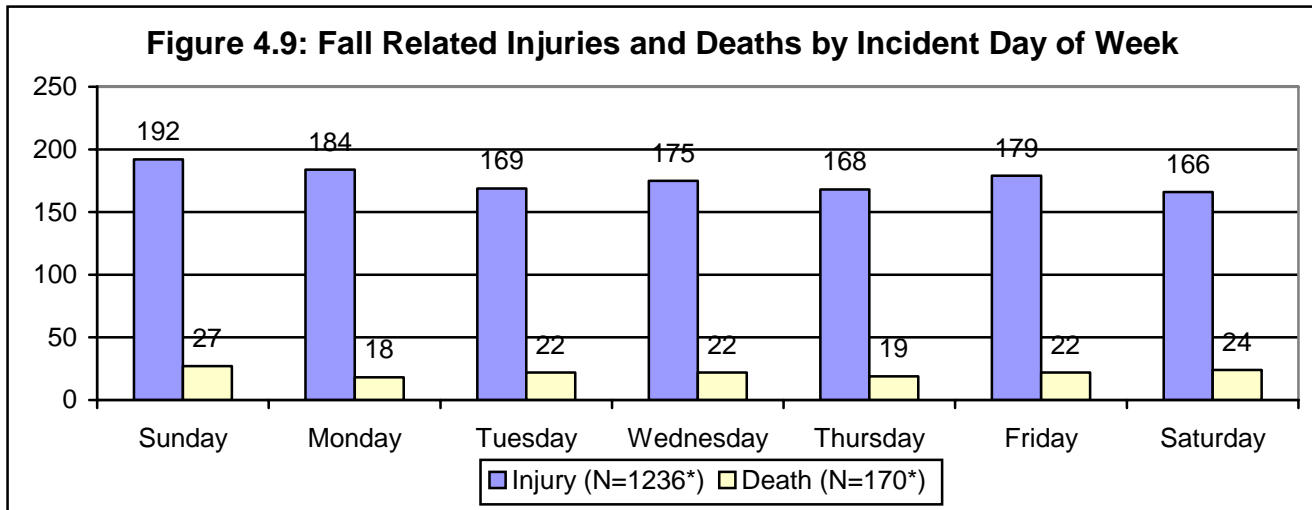


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

*Note: limited to patients arriving at trauma facilities (deaths on scene or at non-trauma facilities not applicable)

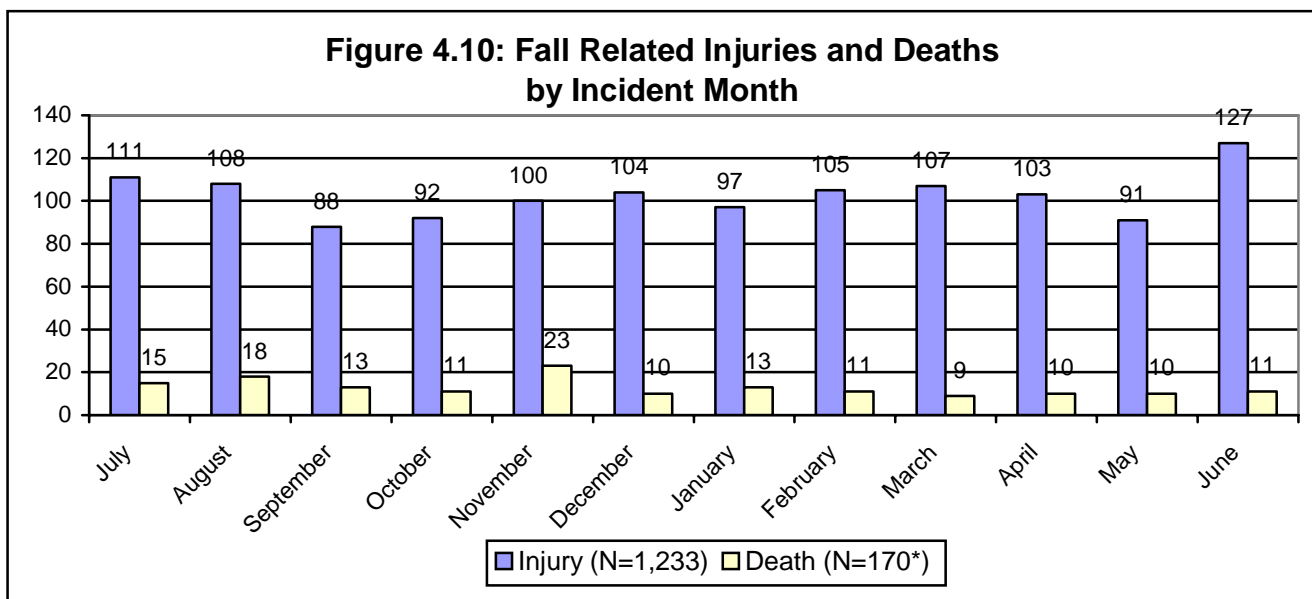
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

The day of the week with the highest frequency of injury and death from falls was Sunday. Examining data by month showed that June had the highest number of nonfatal injuries, while November had the greatest number of deaths.



*Totals include six injuries and 16 deaths with unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

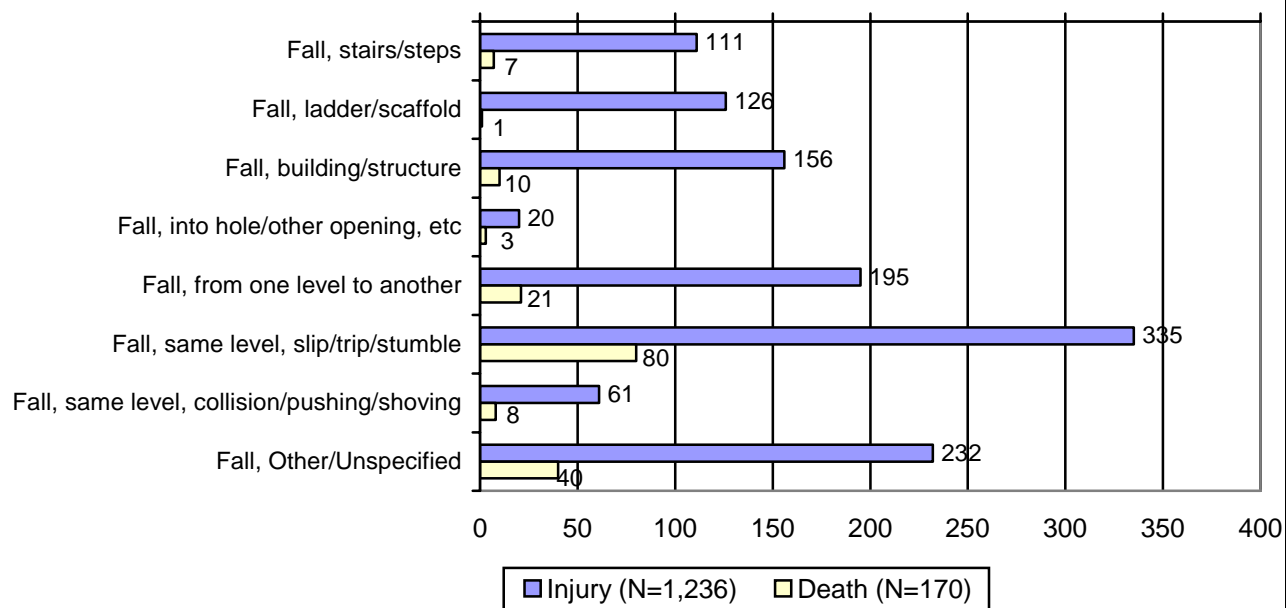


*Totals include three injuries and 16 deaths with unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

The ratio of deaths to severe injuries was much higher for falls on the same level (1 death per 4.5 nonfatal injuries) than for falls from one level to another (1 death per 15.5 injuries). This may at first seem paradoxical, but makes sense considering that those who are injured from same-level falls are generally far older and frailer than those who fell from a greater height.

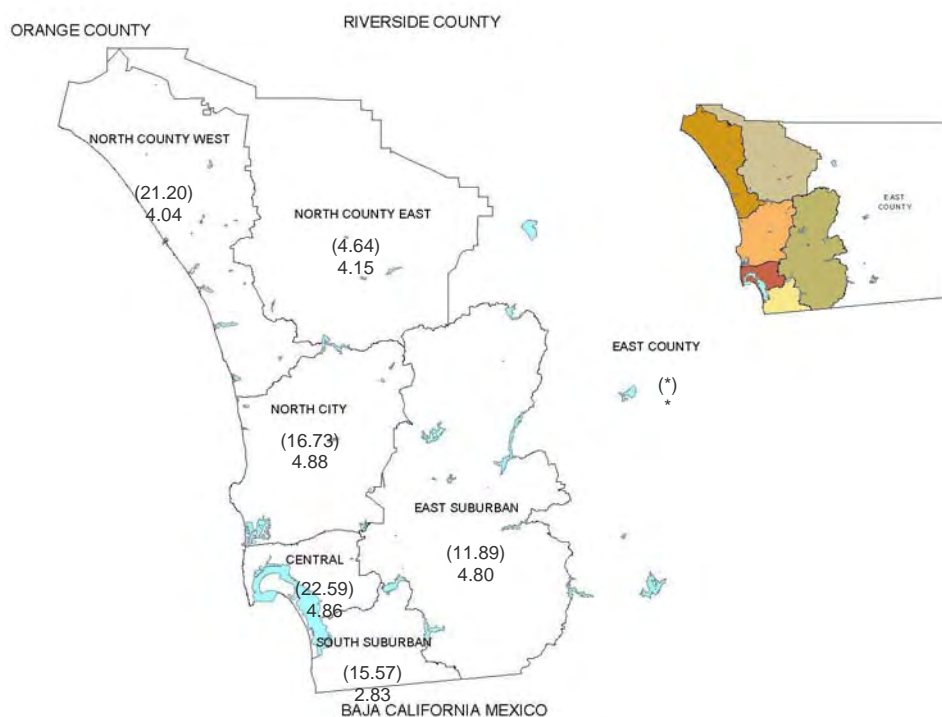
Figure 4.11: Fall Related Injuries and Deaths by Mechanism



Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 39% of non-fatal fall injuries and for 78% of deaths from falls. The Central MSA had the highest rate of fall injury (22.59 per 100,000), and the North City MSA had the highest fall death rate (4.88 per 100,000). Population estimates for each of the MSAs can be found in Appendix B.

Figure 4.12: Fall Related Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

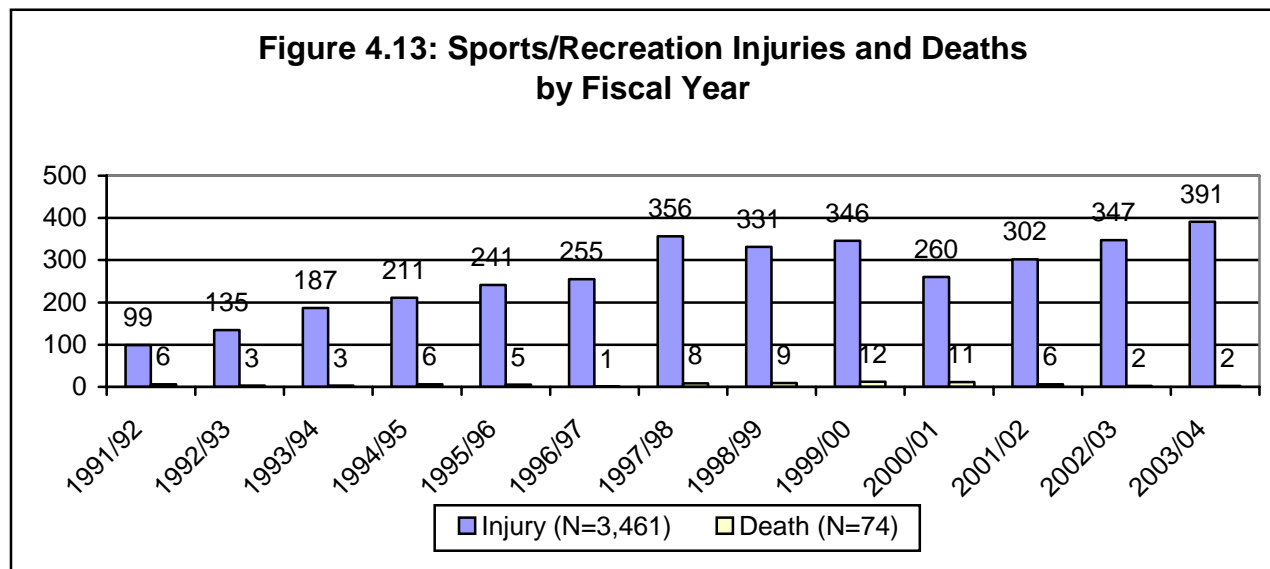
Please note there were 754 injuries and 38 deaths with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2003/04; Population estimates, SANDAG

Sports and Recreation Injuries

Sports and recreation injuries include: skates, roller blades, skiing, sleds, off road vehicles, riding animals, water sports, fall from playground equipment or injuries sustained while participating in sports (hit, kicked, struck). Sports and recreation did not account for a large percentage of injury deaths or years of potential life lost. Between FY 1991/92 and FY 2001/02, there was one death to every 47 severe injuries due to sports/recreation activity.

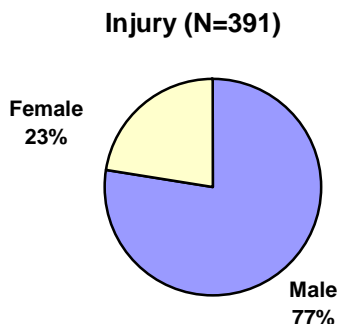
The number of injuries increased 13% from FY 2002/03 to FY 2003/04, and the number of deaths remained the same.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 – 2003/04

Seventy seven percent of injuries due to sports and recreation activity were to males. Victims were also relatively young, with more than half of injuries occurring to people less than 25 years of age.

Figure 4.14: Sports/Recreation Injuries by Gender



Due to low numbers deaths were not included.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04

Table 4.2: Number and Rate* (per 100,000) of Sports/Recreation Injury by Age Group and Gender

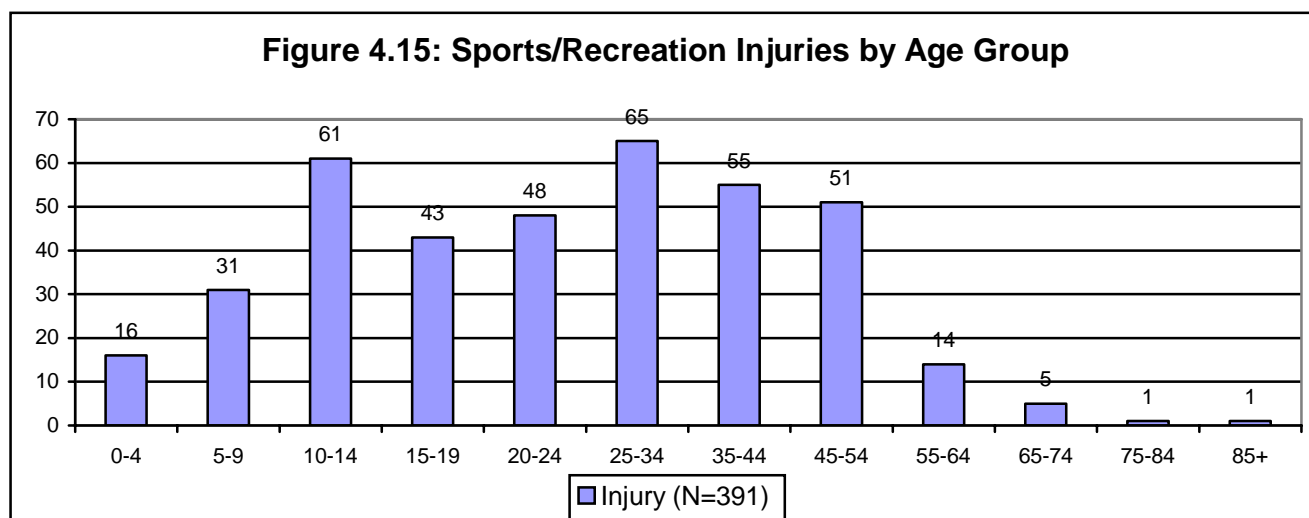
	Injury					
	Male		Female		Total	
	Number	Rate	Number	Rate	Number	Rate
0-4	5	4.65	11	10.14	16	7.41
5-9	21	21.09	10	10.04	31	15.56
10-14	49	43.61	12	11.04	61	27.60
15-19	37	31.29	6	5.59	43	19.06
20-24	42	31.46	6	5.69	48	20.10
25-34	57	23.61	8	3.55	65	13.94
35-44	44	18.92	11	4.76	55	11.86
45-54	31	15.86	20	9.81	51	12.77
55-64	11	9.08	3	*	14	5.53
65-74	4	*	1	*	5	3.12
75-84	1	*	0	-	1	*
85+	1	*	0	-	1	*
Total	303	20.16	88	5.83	391	12.98

*Rates not calculated on fewer than five incidents.

Due to low numbers deaths were not included in the table.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04; Population Estimates, SANDAG

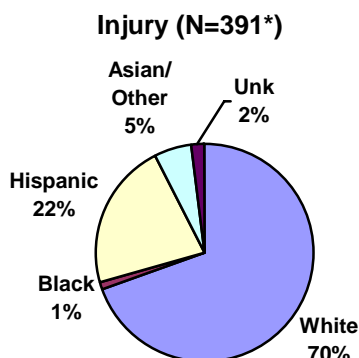
Sports and recreation injuries occurred with the greatest frequency and rate in the 10 to 14 year age group. Whites suffered 70% of injuries and had the highest rate of injury due to sports and recreation activities (17 per 100,000).



Deaths not shown due to low numbers

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

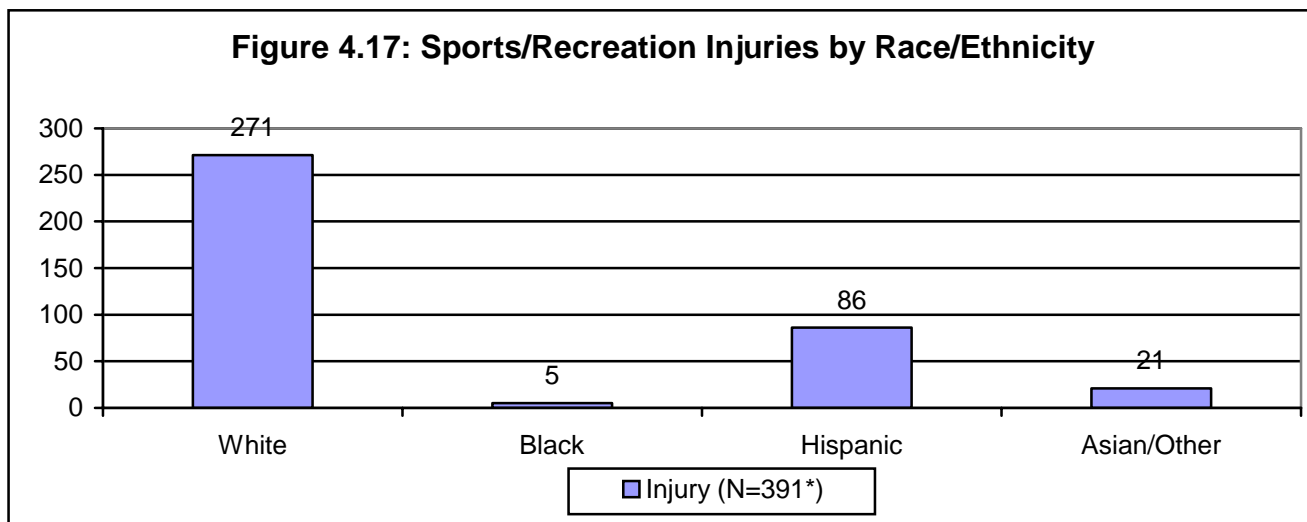
Figure 4.16: Sports/Recreation Injuries by Race/Ethnicity



*Total includes five injuries with unspecified race/ethnicity.

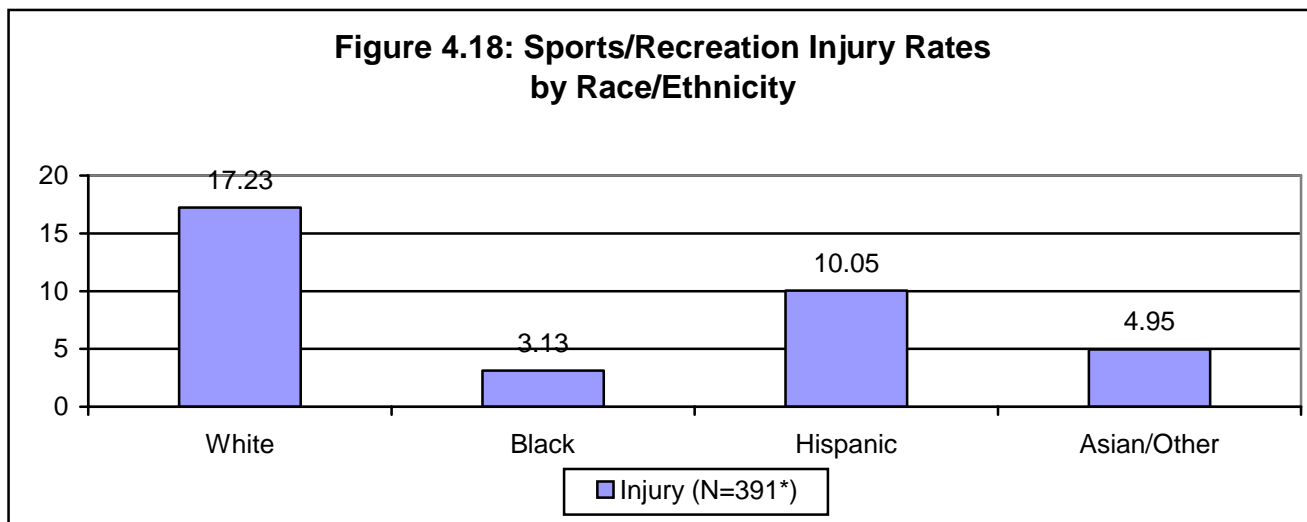
Deaths not shown due to low numbers

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04

Figure 4.17: Sports/Recreation Injuries by Race/Ethnicity

*Totals include eight injuries with unspecified race/ethnicity.

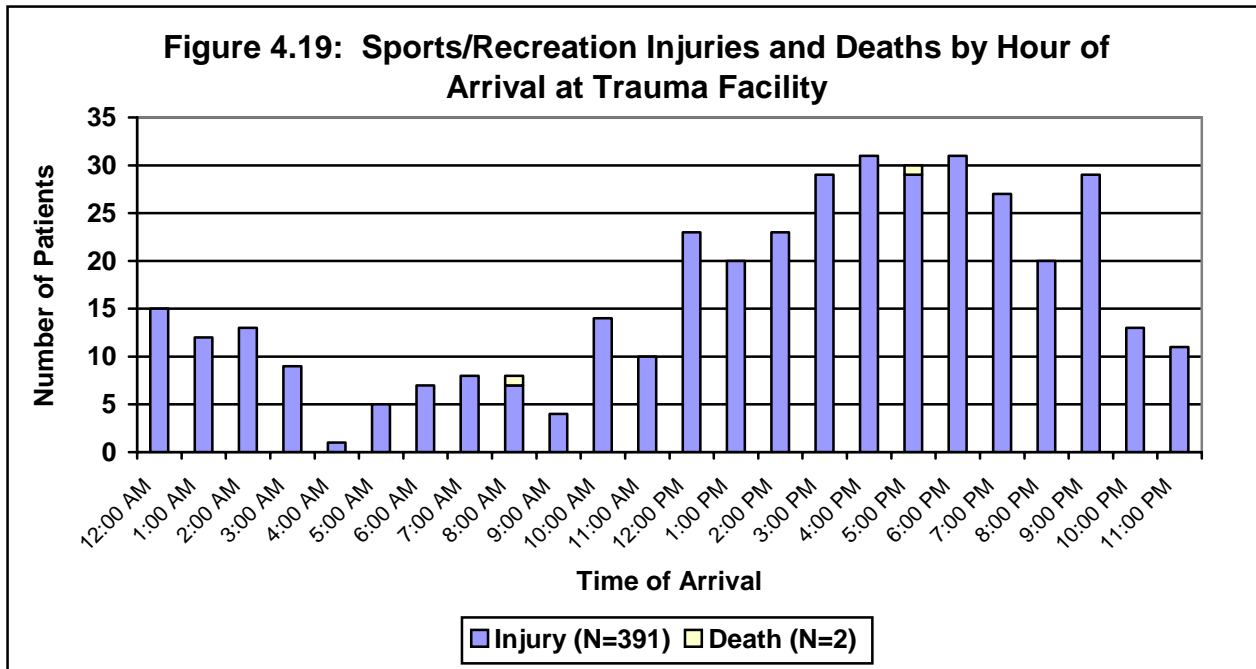
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Figure 4.18: Sports/Recreation Injury Rates by Race/Ethnicity

*Totals include eight injuries with unspecified race/ethnicity.

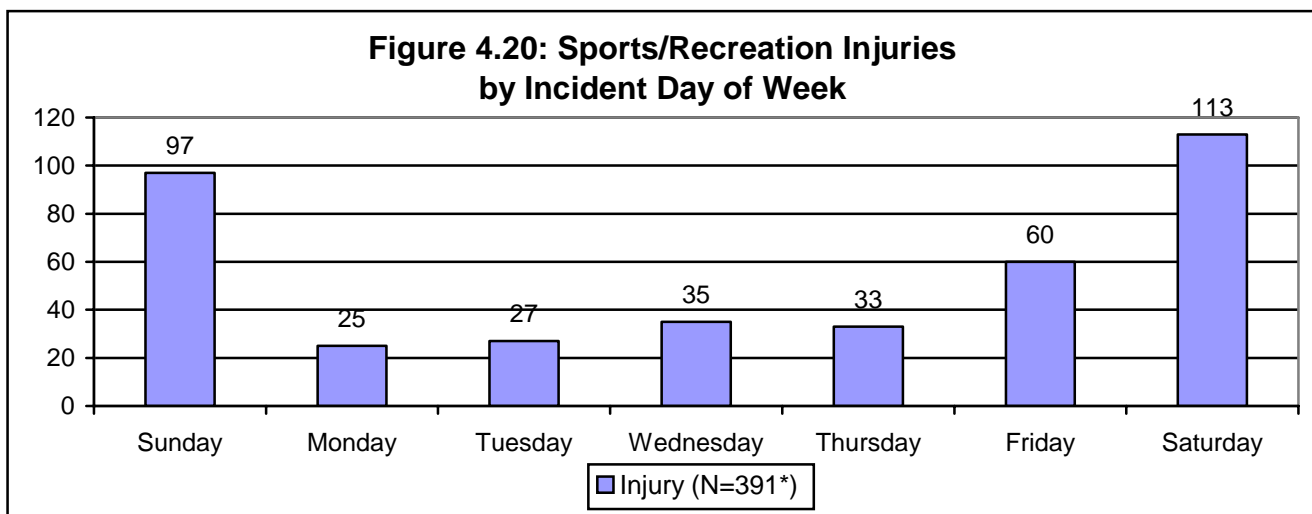
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Trauma center admissions for sports and recreation-related injuries hit their peak between 3 and 7 p.m. and on weekends (54% on Saturdays and Sundays). By month, March had the highest number of injuries (44).



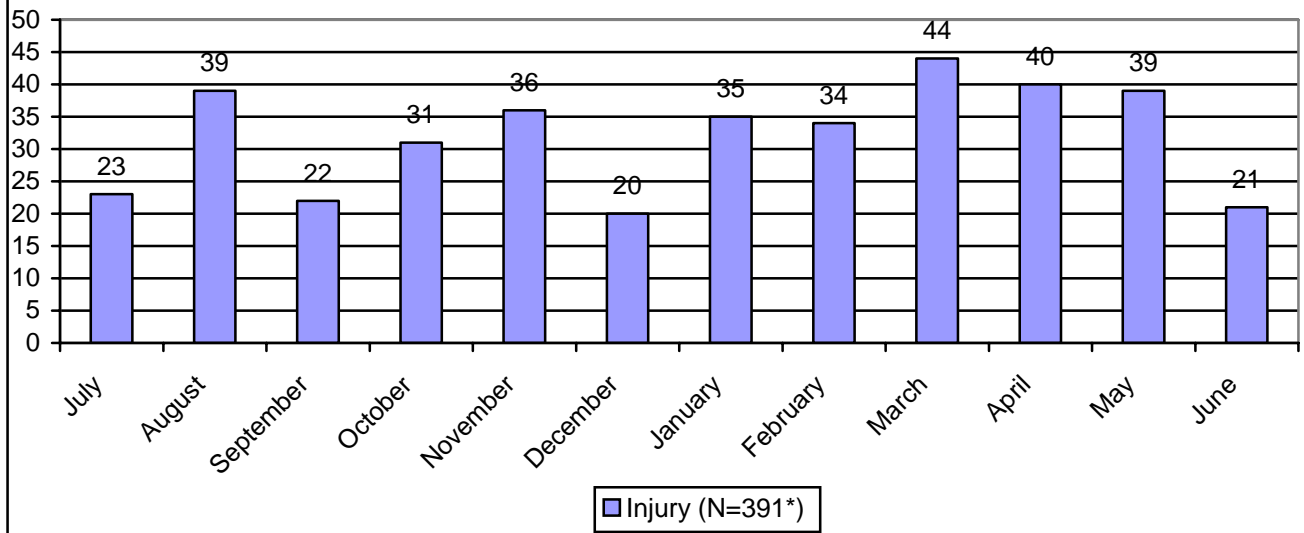
All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04



*Total includes one injury with unspecified incident dates.

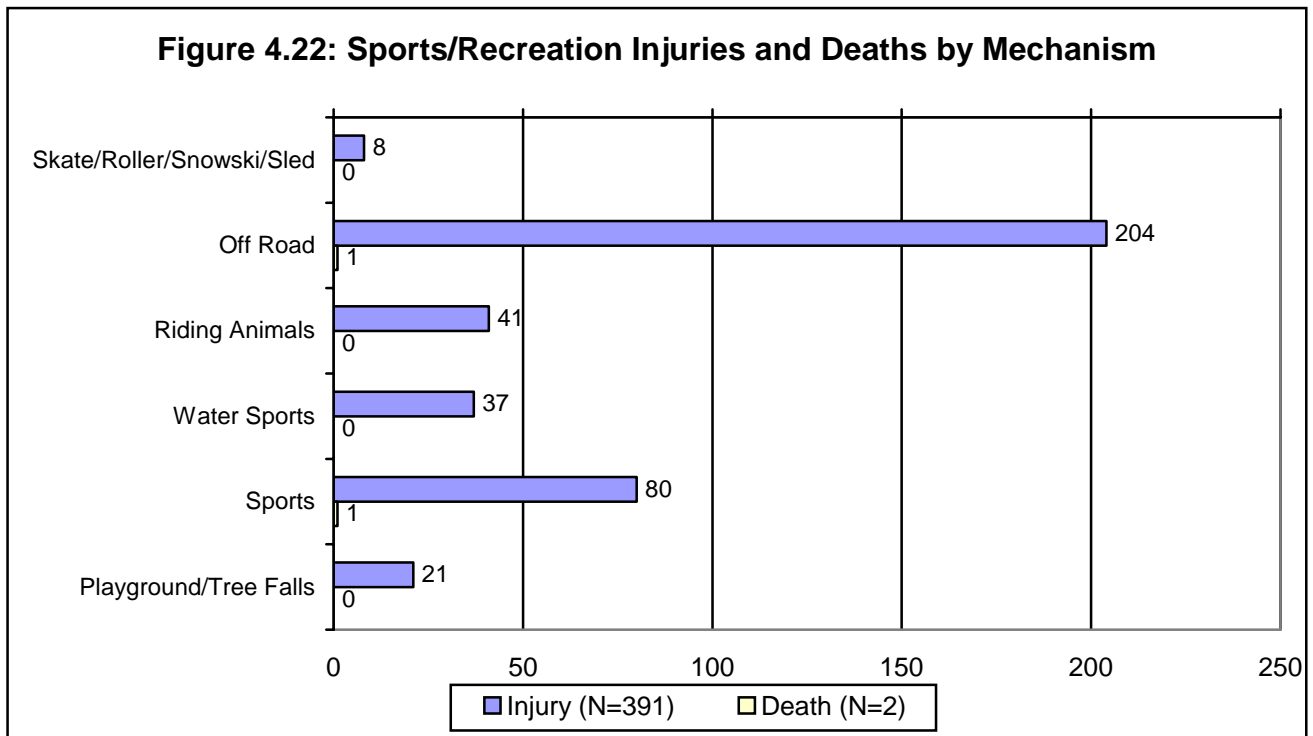
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Figure 4.21: Sports/Recreation Injuries by Incident Month

*Total includes one injury with unspecified incident date.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

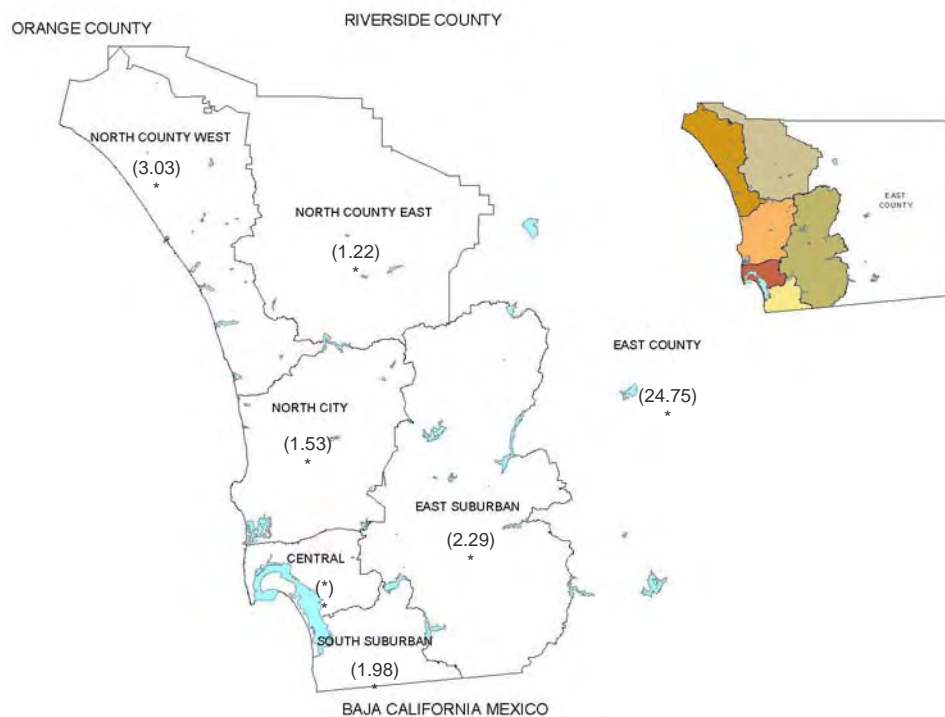
The highest number of injuries was due to off-road vehicle activity, followed by sports, riding animals, and water sports.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2003/04

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 14% of non-fatal sports and recreation injuries. There were too few deaths to calculate rates by MSA. Injury rates were highest in the East MSA (24.75 per 100,000). Population estimates for each of the MSAs can be found in Appendix B.

Figure 4.23: Sports/Recreation Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

Please note there were 336 injuries with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2003/04; Population estimates, SANDAG

**Who is at Greatest Risk of Violent Injury and Death?
(Rates = Number per 100,000 Population)**

- **Assault:** Males aged 20 to 24 had the highest overall rates of nonfatal assault injury (140.8), with the highest rates within this group among the Black (291.1) and Hispanic (200) populations. Black males between 15 and 19 years of age had the highest overall assault injury rate (307.6).
- **Homicide:** The rate of homicide was highest among Black men age 25-34 (56.1).
- **Unarmed Assault:** Blacks aged 25-34 years (39.4) were at greatest risk of serious injury due to an unarmed assault.
- **Assault by Firearm:** Blacks aged 20-24 (96.0) were most likely to be assaulted with a gun.
- **Assault by Stabbing:** Blacks 15-19 years of age (86.4) were at greatest risk of serious injury due to stabbing assault.
- **Homicide by Firearm:** Blacks aged 25-34 (43.4) had the highest firearm homicide rate.
- **Self-Inflicted Injuries:** Hispanic males 25-34 years of age (11.9) were most likely to inflict nonfatal injuries on themselves.
- **Suicide:** The traumatic suicide rate was highest for White males 85 years and older (74.0).

Table 5.1: Assaults by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	42,652	7	16.41	45,033	2	*	87,685	9	10.26
Black	6,233	2	*	5,950	2	*	12,183	4	*
Hispanic	41,424	6	14.48	41,303	4	*	82,727	10	12.09
Asian/Other	17,143	1	*	16,227	2	*	33,370	3	*
Subtotal	107,452	16	14.89	108,513	10	9.22	215,965	26	12.04
5-9									
White	40,169	2	*	41,910	0	-	82,079	2	*
Black	6,479	0	-	6,148	0	-	12,627	0	-
Hispanic	36,855	1	*	36,471	0	-	73,326	1	*
Asian/Other	16,062	0	-	15,086	0	-	31,148	0	-
Subtotal	99,565	3	*	99,615	0	-	199,180	3	*
10-14									
White	44,232	2	*	43,989	0	-	88,221	2	*
Black	7,153	0	-	6,929	0	-	14,082	0	-
Hispanic	44,741	7	15.65	42,432	1	*	87,173	8	9.18
Asian/Other	16,243	0	-	15,302	0	-	31,545	0	-
Subtotal	112,369	9	8.01	108,652	1	*	221,021	10	4.52
15-19									
White	51,046	24	47.02	46,105	3	*	97,151	27	27.79
Black	7,477	23	307.61	6,410	1	*	13,887	24	172.82
Hispanic	42,145	81	192.19	38,085	5	13.13	80,230	86	107.19
Asian/Other	17,571	5	28.46	16,820	1	*	34,391	6	17.45
Subtotal	118,239	133	112.48	107,420	10	9.31	225,659	143	63.37
20-24									
White	57,890	53	91.55	42,229	0	-	100,119	53	52.94
Black	8,587	25	291.14	6,000	1	*	14,587	26	178.24
Hispanic	48,401	97	200.41	39,672	8	20.17	88,073	105	119.22
Asian/Other	18,612	12	64.47	17,460	0	-	36,072	12	33.27
Subtotal	133,490	188	140.83	105,361	9	8.54	238,851	197	82.48
25-34									
White	108,761	54	49.65	95,237	6	6.30	203,998	60	29.41
Black	14,279	26	182.09	11,082	3	*	25,361	29	114.35
Hispanic	84,186	91	108.09	81,705	5	6.12	165,891	96	57.87
Asian/Other	34,148	9	26.36	37,049	0	-	71,197	9	12.64
Subtotal	241,374	185	76.64	225,073	14	6.22	466,447	199	42.66
35-44									
White	127,309	49	38.49	119,872	8	6.67	247,181	57	23.06
Black	14,733	22	149.32	12,555	1	*	27,288	23	84.29
Hispanic	59,714	51	85.41	63,936	2	*	123,650	53	42.86
Asian/Other	30,790	2	*	34,908	1	*	65,698	3	*
Subtotal	232,546	127	54.61	231,271	12	5.19	463,817	139	29.97
45-54									
White	125,423	35	27.91	124,568	4	*	249,991	39	15.60
Black	10,183	11	108.02	9,491	4	*	19,674	15	76.24
Hispanic	35,259	13	36.87	40,554	2	*	75,813	15	19.79
Asian/Other	24,651	3	*	29,312	1	*	53,963	4	*
Subtotal	195,516	66	33.76	203,925	11	5.39	399,441	77	19.28

* Rate not calculated on less than five incidents.

** Totals include 14 patients with unspecified age, race/ethnicity, and/or gender.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

Table 5.1: Assaults by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	85,623	15	17.52	87,960	2	*	173,583	17	9.79
Black	4,841	5	103.28	5,255	1	*	10,096	6	59.43
Hispanic	16,858	5	29.66	21,402	3	*	38,260	8	20.91
Asian/Other	13,884	1	*	17,544	0	-	31,428	1	*
Subtotal	121,206	27	22.28	132,161	6	4.54	253,367	33	13.02
65-74									
White	51,841	1	*	57,869	1	*	109,710	2	*
Black	2,820	0	-	3,164	0	-	5,984	0	-
Hispanic	9,822	1	*	13,632	1	*	23,454	2	*
Asian/Other	8,628	0	-	12,690	0	-	21,318	0	-
Subtotal	73,111	2	*	87,355	2	*	160,466	4	*
75-84									
White	39,983	1	*	55,714	2	*	95,697	3	*
Black	1,261	1	*	1,765	0	-	3,026	1	*
Hispanic	5,397	0	-	7,788	1	*	13,185	1	*
Asian/Other	4,891	1	*	6,745	0	-	11,636	1	*
Subtotal	51,532	3	*	72,012	3	*	123,544	6	4.86
85+									
White	13,506	0	-	24,131	0	-	37,637	0	-
Black	320	0	-	675	0	-	995	0	-
Hispanic	1,327	0	-	2,466	0	-	3,793	0	-
Asian/Other	1,076	0	-	1,755	1	*	2,831	1	*
Subtotal	16,229	0	-	29,027	1	*	45,256	1	*
Total**	1,502,629	759	50.51	1,510,385	79	5.23	3,013,014	838	27.81

* Rate not calculated on less than five incidents.

** Totals include 14 patients with unspecified age, race/ethnicity, and/or gender.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

Table 5.2: Homicides by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	42,652	0	-	45,033	0	-	87,685	0	-
Black	6,233	0	-	5,950	0	-	12,183	0	-
Hispanic	41,424	0	-	41,303	1	*	82,727	1	*
Asian/Other	17,143	0	-	16,227	0	-	33,370	0	-
Subtotal	107,452	0	-	108,513	2	*	215,965	2	*
5-9									
White	40,169	0	-	41,910	0	-	82,079	0	-
Black	6,479	0	-	6,148	0	-	12,627	0	-
Hispanic	36,855	0	-	36,471	0	-	73,326	0	-
Asian/Other	16,062	0	-	15,086	0	-	31,148	0	-
Subtotal	99,565	0	-	99,615	0	-	199,180	0	-
10-14									
White	44,232	1	*	43,989	0	-	88,221	1	*
Black	7,153	1	*	6,929	0	-	14,082	1	*
Hispanic	44,741	0	-	42,432	0	-	87,173	0	-
Asian/Other	16,243	0	-	15,302	0	-	31,545	0	-
Subtotal	112,369	2	*	108,652	0	-	221,021	2	*
15-19									
White	51,046	3	*	46,105	5	10.84	97,151	8	8.23
Black	7,477	3	*	6,410	0	-	13,887	3	*
Hispanic	42,145	8	18.98	38,085	2	*	80,230	10	12.46
Asian/Other	17,571	3	*	16,820	0	-	34,391	3	*
Subtotal	118,239	17	14.38	107,420	7	6.52	225,659	24	10.64
20-24									
White	57,890	4	*	42,229	1	*	100,119	5	4.99
Black	8,587	1	*	6,000	0	-	14,587	1	*
Hispanic	48,401	16	33.06	39,672	1	*	88,073	17	19.30
Asian/Other	18,612	2	*	17,460	1	*	36,072	3	*
Subtotal	133,490	23	17.23	105,361	3	*	238,851	26	10.89
25-34									
White	108,761	3	*	95,237	2	*	203,998	5	2.45
Black	14,279	8	56.03	11,082	4	*	25,361	12	47.32
Hispanic	84,186	8	9.50	81,705	3	*	165,891	11	6.63
Asian/Other	34,148	0	-	37,049	2	*	71,197	2	*
Subtotal	241,374	19	7.87	225,073	11	4.89	466,447	30	6.43
35-44									
White	127,309	7	5.50	119,872	2	*	247,181	9	3.64
Black	14,733	3	*	12,555	2	*	27,288	5	18.32
Hispanic	59,714	3	*	63,936	0	-	123,650	3	*
Asian/Other	30,790	0	-	34,908	0	-	65,698	0	-
Subtotal	232,546	13	5.59	231,271	4	*	463,817	17	3.67
45-54									
White	125,423	8	6.38	124,568	0	-	249,991	8	3.20
Black	10,183	2	*	9,491	1	*	19,674	3	*
Hispanic	35,259	5	14.18	40,554	1	*	75,813	6	7.91
Asian/Other	24,651	2	*	29,312	1	*	53,963	3	*
Subtotal	195,516	17	8.69	203,925	4	*	399,441	21	5.26

* Rate not calculated on less than five incidents.

** Totals include four patients with unspecified age, race/ethnicity, and/or gender.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

Table 5.2: Homicides by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	85,623	1	*	87,960	0	-	173,583	1	*
Black	4,841	0	-	5,255	0	-	10,096	0	-
Hispanic	16,858	1	*	21,402	0	-	38,260	1	*
Asian/Other	13,884	0	-	17,544	0	-	31,428	0	-
Subtotal	121,206	3	*	132,161	0	-	253,367	3	*
65-74									
White	51,841	2	*	57,869	0	-	109,710	2	*
Black	2,820	0	-	3,164	1	*	5,984	1	*
Hispanic	9,822	1	*	13,632	0	-	23,454	1	*
Asian/Other	8,628	0	-	12,690	1	*	21,318	1	*
Subtotal	73,111	3	*	87,355	2	*	160,466	5	3.12
75-84									
White	39,983	1	*	55,714	2	*	95,697	3	*
Black	1,261	0	-	1,765	0	-	3,026	0	-
Hispanic	5,397	1	*	7,788	0	-	13,185	1	*
Asian/Other	4,891	0	-	6,745	0	-	11,636	0	-
Subtotal	51,532	2	*	72,012	2	*	123,544	4	*
85+									
White	13,506	0	-	24,131	0	-	37,637	0	-
Black	320	0	-	675	0	-	995	0	-
Hispanic	1,327	0	-	2,466	1	*	3,793	1	*
Asian/Other	1,076	0	-	1,755	0	-	2,831	0	-
Subtotal	16,229	0	-	29,027	1	*	45,256	1	*
Total**	1,502,629	99	6.59	1,510,385	36	2.38	3,013,014	136	4.48

* Rate not calculated on less than five incidents.

** Totals include four patients with unspecified age, race/ethnicity, and/or gender.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

Table 5.3: Assaults by Age Group, Race/Ethnicity and Mechanism

		Unarmed		Gunshot		Stabbing		Other Assault	
	Population	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Under 5									
White	87,685	9	10.26	0	-	0	-	0	-
Black	12,183	4	*	0	-	0	-	0	-
Hispanic	82,727	9	10.88	0	-	1	*	0	-
Asian/Other	33,370	3	*	0	-	0	-	0	-
Subtotal	215,965	25	11.58	0	-	1	*	0	-
5-9									
White	82,079	1	*	0	-	1	*	0	-
Black	12,627	0	-	0	-	0	-	0	-
Hispanic	73,326	0	-	0	-	1	*	0	-
Asian/Other	31,148	0	-	0	-	0	-	0	-
Subtotal	199,180	1	*	0	-	2	*	0	-
10-14									
White	88,221	2	*	0	-	0	-	0	-
Black	14,082	0	-	0	-	0	-	0	-
Hispanic	87,173	1	*	4	*	3	*	0	-
Asian/Other	31,545	0	-	0	-	0	-	0	-
Subtotal	221,021	3	*	4	*	3	*	0	-
15-19									
White	97,151	8	8.23	2	*	12	12.35	5	5.15
Black	13,887	2	*	7	50.41	12	86.41	3	*
Hispanic	80,230	14	17.45	24	29.91	40	49.86	8	9.97
Asian/Other	34,391	1	*	1	*	2	*	2	*
Subtotal	225,659	25	11.08	34	15.07	66	29.25	18	7.98
20-24									
White	100,119	23	22.97	4	*	17	16.98	9	8.99
Black	14,587	2	*	14	95.98	7	47.99	3	*
Hispanic	88,073	19	21.57	27	30.66	46	52.23	13	14.76
Asian/Other	36,072	2	*	2	*	6	16.63	2	*
Subtotal	238,851	47	19.68	47	19.68	76	31.82	27	11.30
25-34									
White	203,998	27	13.24	1	*	21	10.29	11	5.39
Black	25,361	10	39.43	9	35.49	9	35.49	1	*
Hispanic	165,891	23	13.86	22	13.26	29	17.48	22	13.26
Asian/Other	71,197	2	*	0	-	3	*	4	*
Subtotal	466,447	62	13.29	32	6.86	65	13.94	40	8.58
35-44									
White	247,181	24	9.71	5	2.02	13	5.26	15	6.07
Black	27,288	3	*	9	32.98	8	29.32	3	*
Hispanic	123,650	17	13.75	8	6.47	15	12.13	13	10.51
Asian/Other	65,698	1	*	1	*	1	*	0	-
Subtotal	463,817	45	9.70	24	5.17	39	8.41	31	6.68
45-54									
White	249,991	17	6.80	1	*	6	2.40	15	6.00
Black	19,674	5	25.41	0	-	6	30.50	4	*
Hispanic	75,813	7	9.23	0	-	3	*	5	6.60
Asian/Other	53,963	2	*	1	*	1	*	0	-
Subtotal	399,441	32	8.01	2	*	18	4.51	25	6.26

* Rate not calculated on less than five incidents.

** Totals include 14 victims with unspecified age or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG.

Table 5.3: Assaults by Age Group, Race/Ethnicity and Mechanism (Continued)

		Unarmed		Gunshot		Stabbing		Other Assault	
	Population	Number	Rate	Number	Rate	Number	Rate	Number	Rate
55-64									
White	173,583	8	4.61	0	-	3	*	6	3.46
Black	10,096	3	*	2	*	0	-	1	*
Hispanic	38,260	3	*	0	-	3	*	2	*
Asian/Other	31,428	0	-	0	-	0	-	1	*
Subtotal	253,367	15	5.92	2	*	6	2.37	10	3.95
65-74									
White	109,710	0	-	0	-	0	-	2	*
Black	5,984	0	-	0	-	0	-	0	-
Hispanic	23,454	1	*	0	-	0	-	1	*
Asian/Other	21,318	0	-	0	-	0	-	0	-
Subtotal	160,466	1	*	0	-	0	-	3	*
75-84									
White	95,697	3	*	0	-	0	-	0	-
Black	3,026	0	-	0	-	1	*	0	-
Hispanic	13,185	0	-	0	-	0	-	1	*
Asian/Other	11,636	1	*	0	-	0	-	0	-
Subtotal	123,544	4	*	0	-	1	*	1	*
85+									
White	37,637	0	-	0	-	0	-	0	-
Black	995	0	-	0	-	0	-	0	-
Hispanic	3,793	0	-	0	-	0	-	0	-
Asian/Other	2,831	1	*	0	-	0	-	0	-
Subtotal	45,256	1	*	0	-	0	-	0	-
Total**	3,013,014	261	8.66	145	4.81	277	9.19	155	5.14

* Rate not calculated on less than five incidents.

** Totals include 14 victims with unspecified age or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG.

Table 5.4: Homicides by Age Group, Race/Ethnicity and Mechanism

		Unarmed		Gunshot		Stabbing		Other Assault	
	Population	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Under 5									
White	87,685	0	-	0	-	0	-	0	-
Black	12,183	0	-	0	-	0	-	0	-
Hispanic	82,727	1	*	0	-	0	-	0	-
Asian/Other	33,370	0	-	0	-	0	-	0	-
Subtotal	215,965	2	*	0	-	0	-	0	-
5-9									
White	82,079	0	-	0	-	0	-	0	-
Black	12,627	0	-	0	-	0	-	0	-
Hispanic	73,326	0	-	0	-	0	-	0	-
Asian/Other	31,148	0	-	0	-	0	-	0	-
Subtotal	199,180	0	-	0	-	0	-	0	-
10-14									
White	88,221	0	-	1	*	0	-	0	-
Black	14,082	1	*	0	-	0	-	0	-
Hispanic	87,173	0	-	0	-	0	-	0	-
Asian/Other	31,545	0	-	0	-	0	-	0	-
Subtotal	221,021	1	*	1	*	0	-	0	-
15-19									
White	97,151	0	-	2	*	2	*	4	*
Black	13,887	0	-	2	*	1	*	0	-
Hispanic	80,230	0	-	10	12.46	0	-	0	-
Asian/Other	34,391	0	-	3	*	0	-	0	-
Subtotal	225,659	0	-	17	7.53	3	*	4	*
20-24									
White	100,119	1	*	2	*	1	*	1	*
Black	14,587	0	-	1	*	0	-	0	-
Hispanic	88,073	0	-	14	15.90	2	*	1	*
Asian/Other	36,072	0	-	2	*	0	-	1	*
Subtotal	238,851	1	*	19	7.95	3	*	3	*
25-34									
White	203,998	0	-	3	*	2	*	0	-
Black	25,361	0	-	11	43.37	1	*	0	-
Hispanic	165,891	0	-	8	4.82	1	*	2	*
Asian/Other	71,197	0	-	2	*	0	-	0	-
Subtotal	466,447	0	-	24	5.15	4	*	2	*
35-44									
White	247,181	1	*	4	*	2	*	2	*
Black	27,288	0	-	3	*	2	*	0	-
Hispanic	123,650	0	-	2	*	0	-	1	*
Asian/Other	65,698	0	-	0	-	0	-	0	-
Subtotal	463,817	1	*	9	1.94	4	*	3	*
45-54									
White	249,991	2	*	1	*	1	*	4	*
Black	19,674	0	-	1	*	1	*	1	*
Hispanic	75,813	0	-	1	*	2	*	3	*
Asian/Other	53,963	1	*	1	*	0	-	1	*
Subtotal	399,441	3	*	4	*	4	*	10	2.50

* Rate not calculated on less than five incidents.

** Totals include four victims with unspecified age or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG.

Table 5.4: Homicides by Age Group, Race/Ethnicity and Mechanism (Continued)

		Unarmed		Gunshot		Stabbing		Other Assault	
	Population	Number	Rate	Number	Rate	Number	Rate	Number	Rate
55-64									
White	173,583	0	-	1	*	0	-	0	-
Black	10,096	0	-	0	-	0	-	0	-
Hispanic	38,260	0	-	1	*	0	-	0	-
Asian/Other	31,428	0	-	0	-	0	-	0	-
Subtotal	253,367	1	*	2	*	0	-	0	-
65-74									
White	109,710	0	-	1	*	0	-	1	*
Black	5,984	0	-	0	-	1	*	0	-
Hispanic	23,454	0	-	1	*	0	-	0	-
Asian/Other	21,318	0	-	1	*	0	-	0	-
Subtotal	160,466	0	-	3	*	1	*	1	*
75-84									
White	95,697	1	*	1	*	1	*	0	-
Black	3,026	0	-	0	-	0	-	0	-
Hispanic	13,185	1	*	0	-	0	-	0	-
Asian/Other	11,636	0	-	0	-	0	-	0	-
Subtotal	123,544	2	*	1	*	1	*	0	-
85+									
White	37,637	0	-	0	-	0	-	0	-
Black	995	0	-	0	-	0	-	0	-
Hispanic	3,793	0	-	0	-	0	-	1	*
Asian/Other	2,831	0	-	0	-	0	-	0	-
Subtotal	45,256	0	-	0	-	0	-	1	*
Total**	3,013,014	11	0.37	80	2.66	20	0.66	25	0.83

* Rate not calculated on less than five incidents.

** Totals include four victims with unspecified age or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG.

Table 5.5: Self Inflicted Injuries by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	42,652	0	-	45,033	0	-	87,685	0	-
Black	6,233	0	-	5,950	0	-	12,183	0	-
Hispanic	41,424	0	-	41,303	0	-	82,727	0	-
Asian/Other	17,143	0	-	16,227	0	-	33,370	0	-
Subtotal	107,452	0	-	108,513	0	-	215,965	0	-
5-9									
White	40,169	0	-	41,910	0	-	82,079	0	-
Black	6,479	0	-	6,148	0	-	12,627	0	-
Hispanic	36,855	0	-	36,471	0	-	73,326	0	-
Asian/Other	16,062	0	-	15,086	0	-	31,148	0	-
Subtotal	99,565	0	-	99,615	0	-	199,180	0	-
10-14									
White	44,232	0	-	43,989	0	-	88,221	0	-
Black	7,153	0	-	6,929	0	-	14,082	0	-
Hispanic	44,741	0	-	42,432	0	-	87,173	0	-
Asian/Other	16,243	0	-	15,302	0	-	31,545	0	-
Subtotal	112,369	0	-	108,652	0	-	221,021	0	-
15-19									
White	51,046	1	*	46,105	2	*	97,151	3	*
Black	7,477	2	*	6,410	0	-	13,887	2	*
Hispanic	42,145	2	*	38,085	3	*	80,230	5	6.23
Asian/Other	17,571	0	-	16,820	0	-	34,391	0	-
Subtotal	118,239	5	4.23	107,420	5	4.65	225,659	10	4.43
20-24									
White	57,890	5	8.64	42,229	1	*	100,119	6	5.99
Black	8,587	1	*	6,000	0	-	14,587	1	*
Hispanic	48,401	4	*	39,672	2	*	88,073	6	6.81
Asian/Other	18,612	4	*	17,460	1	*	36,072	5	13.86
Subtotal	133,490	14	10.49	105,361	4	*	238,851	18	7.54
25-34									
White	108,761	11	10.11	95,237	4	*	203,998	15	7.35
Black	14,279	4	*	11,082	3	*	25,361	7	27.60
Hispanic	84,186	10	11.88	81,705	0	-	165,891	10	6.03
Asian/Other	34,148	1	*	37,049	3	*	71,197	4	*
Subtotal	241,374	26	10.77	225,073	10	4.44	466,447	36	7.72
35-44									
White	127,309	7	5.50	119,872	9	7.51	247,181	16	6.47
Black	14,733	0	-	12,555	0	-	27,288	0	-
Hispanic	59,714	4	*	63,936	0	-	123,650	4	*
Asian/Other	30,790	0	-	34,908	0	-	65,698	0	-
Subtotal	232,546	12	5.16	231,271	9	3.89	463,817	21	4.53
45-54									
White	125,423	8	6.38	124,568	2	*	249,991	10	4.00
Black	10,183	1	*	9,491	0	-	19,674	1	*
Hispanic	35,259	2	*	40,554	1	*	75,813	3	*
Asian/Other	24,651	1	*	29,312	0	-	53,963	1	*
Subtotal	195,516	13	6.65	203,925	3	*	399,441	16	4.01

* Rate not calculated on less than five incidents.

**Totals include two injuries with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY2003/04. Population estimates, SANDAG.

Table 5.5: Self Inflicted Injuries by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	85,623	0	-	87,960	2	*	173,583	2	*
Black	4,841	0	-	5,255	0	-	10,096	0	-
Hispanic	16,858	1	*	21,402	0	-	38,260	1	*
Asian/Other	13,884	0	-	17,544	0	-	31,428	0	-
Subtotal	121,206	1	*	132,161	2	*	253,367	3	*
65-74									
White	51,841	1	*	57,869	0	-	109,710	1	*
Black	2,820	0	-	3,164	0	-	5,984	0	-
Hispanic	9,822	0	-	13,632	1	*	23,454	1	*
Asian/Other	8,628	0	-	12,690	0	-	21,318	0	-
Subtotal	73,111	1	*	87,355	1	*	160,466	2	*
75-84									
White	39,983	3	*	55,714	0	-	95,697	3	*
Black	1,261	0	-	1,765	0	-	3,026	0	-
Hispanic	5,397	0	-	7,788	0	-	13,185	0	-
Asian/Other	4,891	0	-	6,745	0	-	11,636	0	-
Subtotal	51,532	3	*	72,012	0	-	123,544	3	*
85+									
White	13,506	1	*	24,131	0	-	37,637	1	*
Black	320	0	-	675	0	-	995	0	-
Hispanic	1,327	0	-	2,466	0	-	3,793	0	-
Asian/Other	1,076	0	-	1,755	0	-	2,831	0	-
Subtotal	16,229	1	*	29,027	0	-	45,256	1	*
Total**	1,502,629	76	5.06	1,510,385	34	2.25	3,013,014	110	3.65

*Rate not calculated on less than five incidents.

**Totals include two injuries with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04. Population estimates, SANDAG.

Table 5.6: Suicides by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	42,652	0	-	45,033	0	-	87,685	0	-
Black	6,233	0	-	5,950	0	-	12,183	0	-
Hispanic	41,424	0	-	41,303	0	-	82,727	0	-
Asian/Other	17,143	0	-	16,227	0	-	33,370	0	-
Subtotal	107,452	0	-	108,513	0	-	215,965	0	-
5-9									
White	40,169	0	-	41,910	0	-	82,079	0	-
Black	6,479	0	-	6,148	0	-	12,627	0	-
Hispanic	36,855	0	-	36,471	0	-	73,326	0	-
Asian/Other	16,062	0	-	15,086	0	-	31,148	0	-
Subtotal	99,565	0	-	99,615	0	-	199,180	0	-
10-14									
White	44,232	0	-	43,989	0	-	88,221	0	-
Black	7,153	0	-	6,929	0	-	14,082	0	-
Hispanic	44,741	0	-	42,432	0	-	87,173	0	-
Asian/Other	16,243	0	-	15,302	0	-	31,545	0	-
Subtotal	112,369	0	-	108,652	0	-	221,021	0	-
15-19									
White	51,046	3	*	46,105	0	-	97,151	3	*
Black	7,477	1	*	6,410	0	-	13,887	1	*
Hispanic	42,145	2	*	38,085	0	-	80,230	2	*
Asian/Other	17,571	0	-	16,820	1	*	34,391	1	*
Subtotal	118,239	6	5.07	107,420	1	*	225,659	7	3.10
20-24									
White	57,890	11	19.00	42,229	2	*	100,119	13	12.98
Black	8,587	1	*	6,000	0	-	14,587	1	*
Hispanic	48,401	2	*	39,672	0	-	88,073	2	*
Asian/Other	18,612	1	*	17,460	0	-	36,072	1	*
Subtotal	133,490	15	11.24	105,361	2	*	238,851	17	7.12
25-34									
White	108,761	15	13.79	95,237	2	*	203,998	17	8.33
Black	14,279	0	-	11,082	0	-	25,361	0	-
Hispanic	84,186	3	*	81,705	0	-	165,891	3	*
Asian/Other	34,148	3	*	37,049	3	*	71,197	6	8.43
Subtotal	241,374	21	8.70	225,073	6	2.67	466,447	27	5.79
35-44									
White	127,309	21	16.50	119,872	5	4.17	247,181	26	10.52
Black	14,733	2	*	12,555	0	-	27,288	2	*
Hispanic	59,714	1	*	63,936	0	-	123,650	1	*
Asian/Other	30,790	0	-	34,908	1	*	65,698	1	*
Subtotal	232,546	24	10.32	231,271	6	2.59	463,817	30	6.47
45-54									
White	125,423	18	14.35	124,568	9	7.22	249,991	27	10.80
Black	10,183	1	*	9,491	1	*	19,674	2	*
Hispanic	35,259	2	*	40,554	0	-	75,813	2	*
Asian/Other	24,651	1	*	29,312	0	-	53,963	1	*
Subtotal	195,516	22	11.25	203,925	10	4.90	399,441	32	8.01

* Rate not calculated on less than five incidents.

**Totals include two deaths with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04. Population estimates, SANDAG

Table 5.6: Suicides by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	85,623	16	18.69	87,960	0	-	173,583	16	9.22
Black	4,841	0	-	5,255	0	-	10,096	0	-
Hispanic	16,858	0	-	21,402	0	-	38,260	0	-
Asian/Other	13,884	1	*	17,544	0	-	31,428	1	*
Subtotal	121,206	17	14.03	132,161	0	-	253,367	17	6.71
65-74									
White	51,841	15	28.93	57,869	3	*	109,710	18	16.41
Black	2,820	0	-	3,164	0	-	5,984	0	-
Hispanic	9,822	1	*	13,632	0	-	23,454	1	*
Asian/Other	8,628	1	*	12,690	0	-	21,318	1	*
Subtotal	73,111	17	23.25	87,355	3	*	160,466	20	12.46
75-84									
White	39,983	14	35.01	55,714	2	*	95,697	16	16.72
Black	1,261	0	-	1,765	0	-	3,026	0	-
Hispanic	5,397	0	-	7,788	0	-	13,185	0	-
Asian/Other	4,891	0	-	6,745	0	-	11,636	0	-
Subtotal	51,532	15	29.11	72,012	2	*	123,544	17	13.76
85+									
White	13,506	10	74.04	24,131	2	*	37,637	12	31.88
Black	320	0	-	675	0	-	995	0	-
Hispanic	1,327	0	-	2,466	0	-	3,793	0	-
Asian/Other	1,076	0	-	1,755	0	-	2,831	0	-
Subtotal	16,229	10	61.62	29,027	2	*	45,256	12	26.52
Total**	1,502,629	147	9.78	1,510,385	32	2.12	3,013,014	179	5.94

* Rate not calculated on less than five incidents.

** Totals and subtotals include two with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04. Population estimates, SANDAG

Who is at Greatest Risk of Transportation Related Injury and Death? (Rates = Number per 100,000 Population)

- **Motor Vehicle Occupant Injury:** The highest MVO injury rates were to Black, White, and Hispanic men between 20 and 24 years of age (256.2, 162.4, and 157.0, respectively).
- **Motor Vehicle Occupant Death:** White men 20 to 24 years of age (24.2) had the highest MVO death rate, followed by White women between the ages of 75 and 84 years (20.0).
- **Motorcycle Crash Injury:** Motorcycle injury rates were highest among White males aged 20-24 (76.0) and Black 25-34 year old men (70.0).
- **Motorcycle Crash Death:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**
- **Pedalcycle Crash Injury:** White males aged 10-14 (36.2) and Hispanic males aged 10-14 (31.3) were at highest risk of severe injury following a pedalcycle crash.
- **Pedalcycle Crash Death:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**
- **Pedestrian Injury:** The highest rates of pedestrian injury were among Asian/Other males 65-74 years of age (58.0), followed by Hispanic males between 55 and 64 years (41.5).
- **Pedestrian Death:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**

Table 5.7: Motor Vehicle Occupant Injuries by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	42,652	2	*	45,033	5	11.10	87,685	7	7.98
Black	6,233	1	*	5,950	0	-	12,183	1	*
Hispanic	41,424	5	12.07	41,303	4	*	82,727	9	10.88
Asian/Other	17,143	1	*	16,227	1	*	33,370	2	*
Subtotal	107,452	10	9.31	108,513	11	10.14	215,965	21	9.72
5-9									
White	40,169	5	12.45	41,910	4	*	82,079	9	10.97
Black	6,479	2	*	6,148	0	-	12,627	2	*
Hispanic	36,855	11	29.85	36,471	9	24.68	73,326	20	27.28
Asian/Other	16,062	0	-	15,086	2	*	31,148	2	*
Subtotal	99,565	18	18.08	99,615	15	15.06	199,180	33	16.57
10-14									
White	44,232	2	*	43,989	3	*	88,221	5	5.67
Black	7,153	1	*	6,929	0	-	14,082	1	*
Hispanic	44,741	18	40.23	42,432	19	44.78	87,173	37	42.44
Asian/Other	16,243	1	*	15,302	2	*	31,545	3	*
Subtotal	112,369	22	19.58	108,652	24	22.09	221,021	46	20.81
15-19									
White	51,046	55	107.75	46,105	48	104.11	97,151	103	106.02
Black	7,477	6	80.25	6,410	4	*	13,887	10	72.01
Hispanic	42,145	46	109.15	38,085	34	89.27	80,230	80	99.71
Asian/Other	17,571	9	51.22	16,820	13	77.29	34,391	22	63.97
Subtotal	118,239	122	103.18	107,420	100	93.09	225,659	222	98.38
20-24									
White	57,890	94	162.38	42,229	53	125.51	100,119	147	146.83
Black	8,587	22	256.20	6,000	8	133.33	14,587	30	205.66
Hispanic	48,401	76	157.02	39,672	41	103.35	88,073	117	132.84
Asian/Other	18,612	6	32.24	17,460	2	*	36,072	8	22.18
Subtotal	133,490	201	150.57	105,361	106	100.61	238,851	307	128.53
25-34									
White	108,761	58	53.33	95,237	40	42.00	203,998	98	48.04
Black	14,279	10	70.03	11,082	5	45.12	25,361	15	59.15
Hispanic	84,186	61	72.46	81,705	27	33.05	165,891	88	53.05
Asian/Other	34,148	10	29.28	37,049	5	13.50	71,197	15	21.07
Subtotal	241,374	142	58.83	225,073	79	35.10	466,447	221	47.38
35-44									
White	127,309	57	44.77	119,872	58	48.38	247,181	115	46.52
Black	14,733	10	67.87	12,555	13	103.54	27,288	23	84.29
Hispanic	59,714	49	82.06	63,936	33	51.61	123,650	82	66.32
Asian/Other	30,790	7	22.73	34,908	16	45.83	65,698	23	35.01
Subtotal	232,546	125	53.75	231,271	122	52.75	463,817	247	53.25
45-54									
White	125,423	56	44.65	124,568	45	36.12	249,991	101	40.40
Black	10,183	9	88.38	9,491	6	63.22	19,674	15	76.24
Hispanic	35,259	28	79.41	40,554	18	44.39	75,813	46	60.68
Asian/Other	24,651	5	20.28	29,312	14	47.76	53,963	19	35.21
Subtotal	195,516	98	50.12	203,925	85	41.68	399,441	183	45.81

* Rate not calculated on less than five incidents.

** Totals and subtotals include 30 with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

**Table 5.7: Motor Vehicle Occupant Injuries by Age Group, Race/Ethnicity and Gender
(Continued)**

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	85,623	33	38.54	87,960	37	42.06	173,583	70	40.33
Black	4,841	4	*	5,255	3	*	10,096	7	69.33
Hispanic	16,858	20	118.64	21,402	16	74.76	38,260	36	94.09
Asian/Other	13,884	7	50.42	17,544	8	45.60	31,428	15	47.73
Subtotal	121,206	64	52.80	132,161	65	49.18	253,367	129	50.91
65-74									
White	51,841	25	48.22	57,869	16	27.65	109,710	41	37.37
Black	2,820	4	*	3,164	0	-	5,984	4	*
Hispanic	9,822	12	122.17	13,632	10	73.36	23,454	22	93.80
Asian/Other	8,628	2	*	12,690	5	39.40	21,318	7	32.84
Subtotal	73,111	44	60.18	87,355	32	36.63	160,466	76	47.36
75-84									
White	39,983	30	75.03	55,714	28	70.03	95,697	58	60.61
Black	1,261	1	*	1,765	2	*	3,026	3	*
Hispanic	5,397	7	129.70	7,788	4	*	13,185	11	83.43
Asian/Other	4,891	1	*	6,745	3	*	11,636	4	*
Subtotal	51,532	39	75.68	72,012	38	73.74	123,544	77	62.33
85+									
White	13,506	8	59.23	24,131	11	45.58	37,637	19	50.48
Black	320	1	*	675	0	-	995	1	*
Hispanic	1,327	0	-	2,466	0	-	3,793	0	-
Asian/Other	1,076	1	*	1,755	0	-	2,831	1	*
Subtotal	16,229	10	61.62	29,027	12	41.34	45,256	22	48.61
Total**	1,502,629	895	59.56	1,510,385	689	45.62	3,013,014	1,584	52.57

* Rate not calculated on less than five incidents.

** Totals and subtotals include 30 with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

Table 5.8: Motor Vehicle Occupant Deaths by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	42,652	0	-	45,033	1	*	87,685	1	*
Black	6,233	0	-	5,950	0	-	12,183	0	-
Hispanic	41,424	1	*	41,303	0	-	82,727	1	*
Asian/Other	17,143	0	-	16,227	0	-	33,370	0	-
Subtotal	107,452	1	*	108,513	1	*	215,965	2	*
5-9									
White	40,169	0	-	41,910	0	-	82,079	0	-
Black	6,479	0	-	6,148	0	-	12,627	0	-
Hispanic	36,855	1	*	36,471	0	-	73,326	1	*
Asian/Other	16,062	0	-	15,086	0	-	31,148	0	-
Subtotal	99,565	1	*	99,615	0	-	199,180	1	*
10-14									
White	44,232	0	-	43,989	1	*	88,221	1	*
Black	7,153	0	-	6,929	0	-	14,082	0	-
Hispanic	44,741	0	-	42,432	1	*	87,173	1	*
Asian/Other	16,243	0	-	15,302	0	-	31,545	0	-
Subtotal	112,369	0	-	108,652	2	*	221,021	2	*
15-19									
White	51,046	6	11.75	46,105	4	*	97,151	10	10.29
Black	7,477	2	*	6,410	1	*	13,887	3	*
Hispanic	42,145	6	14.24	38,085	2	*	80,230	8	9.97
Asian/Other	17,571	2	*	16,820	2	*	34,391	4	*
Subtotal	118,239	16	13.53	107,420	9	8.38	225,659	25	11.08
20-24									
White	57,890	14	24.18	42,229	3	*	100,119	17	16.98
Black	8,587	0	-	6,000	0	-	14,587	0	-
Hispanic	48,401	9	18.59	39,672	0	-	88,073	9	10.22
Asian/Other	18,612	3	*	17,460	2	*	36,072	5	13.86
Subtotal	133,490	29	21.72	105,361	5	4.75	238,851	34	14.23
25-34									
White	108,761	9	8.28	95,237	2	*	203,998	11	5.39
Black	14,279	2	*	11,082	1	*	25,361	3	*
Hispanic	84,186	9	10.69	81,705	2	*	165,891	11	6.63
Asian/Other	34,148	1	*	37,049	2	*	71,197	3	*
Subtotal	241,374	22	9.11	225,073	7	3.11	466,447	29	6.22
35-44									
White	127,309	12	9.43	119,872	3	*	247,181	15	6.07
Black	14,733	2	*	12,555	0	-	27,288	2	*
Hispanic	59,714	2	*	63,936	3	*	123,650	5	4.04
Asian/Other	30,790	1	*	34,908	1	*	65,698	2	*
Subtotal	232,546	17	7.31	231,271	7	3.03	463,817	24	5.17
45-54									
White	125,423	7	5.58	124,568	4	*	249,991	11	4.40
Black	10,183	0	-	9,491	0	-	19,674	0	-
Hispanic	35,259	4	*	40,554	2	*	75,813	6	7.91
Asian/Other	24,651	3	*	29,312	1	*	53,963	4	*
Subtotal	195,516	14	7.16	203,925	7	3.43	399,441	21	5.26

* Rate not calculated on less than five incidents.

** Totals and subtotals include four with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

**Table 5.8: Motor Vehicle Occupant Deaths by Age Group, Race/Ethnicity and Gender
(Continued)**

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	85,623	3	*	87,960	2	*	173,583	5	2.88
Black	4,841	1	*	5,255	0	-	10,096	1	*
Hispanic	16,858	2	*	21,402	1	*	38,260	3	*
Asian/Other	13,884	0	-	17,544	3	*	31,428	3	*
Subtotal	121,206	6	4.95	132,161	6	4.54	253,367	12	4.74
65-74									
White	51,841	3	*	57,869	2	*	109,710	5	4.56
Black	2,820	1	*	3,164	1	*	5,984	2	*
Hispanic	9,822	2	*	13,632	1	*	23,454	3	*
Asian/Other	8,628	0	-	12,690	1	*	21,318	1	*
Subtotal	73,111	6	8.21	87,355	5	5.72	160,466	11	6.86
75-84									
White	39,983	3	*	55,714	8	20.01	95,697	11	11.49
Black	1,261	0	-	1,765	0	-	3,026	0	-
Hispanic	5,397	0	-	7,788	0	-	13,185	0	-
Asian/Other	4,891	0	-	6,745	0	-	11,636	0	-
Subtotal	51,532	3	*	72,012	8	15.52	123,544	11	8.90
85+									
White	13,506	4	*	24,131	4	*	37,637	8	21.26
Black	320	0	-	675	0	-	995	0	-
Hispanic	1,327	0	-	2,466	1	*	3,793	1	*
Asian/Other	1,076	0	-	1,755	0	-	2,831	0	-
Subtotal	16,229	4	*	29,027	5	17.23	45,256	9	19.89
Total**	1,502,629	119	7.92	1,510,385	62	4.10	3,013,014	181	6.01

* Rate not calculated on less than five incidents.

** Totals and subtotals include four with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

Table 5.9: Motorcycle Injuries by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	42,652	2	*	45,033	0	-	87,685	2	*
Black	6,233	0	-	5,950	0	-	12,183	0	-
Hispanic	41,424	0	-	41,303	0	-	82,727	0	-
Asian/Other	17,143	0	-	16,227	0	-	33,370	0	-
Subtotal	107,452	2	*	108,513	0	-	215,965	2	*
5-9									
White	40,169	0	-	41,910	0	-	82,079	0	-
Black	6,479	0	-	6,148	0	-	12,627	0	-
Hispanic	36,855	3	*	36,471	1	*	73,326	4	*
Asian/Other	16,062	0	-	15,086	0	-	31,148	0	-
Subtotal	99,565	3	*	99,615	1	*	199,180	4	*
10-14									
White	44,232	6	13.56	43,989	2	*	88,221	8	9.07
Black	7,153	0	-	6,929	0	-	14,082	0	-
Hispanic	44,741	2	*	42,432	0	-	87,173	2	*
Asian/Other	16,243	0	-	15,302	0	-	31,545	0	-
Subtotal	112,369	8	7.12	108,652	2	*	221,021	10	4.52
15-19									
White	51,046	18	35.26	46,105	3	*	97,151	21	21.62
Black	7,477	1	*	6,410	0	-	13,887	1	*
Hispanic	42,145	7	16.61	38,085	0	-	80,230	7	8.72
Asian/Other	17,571	0	-	16,820	0	-	34,391	0	-
Subtotal	118,239	27	22.84	107,420	3	*	225,659	30	13.29
20-24									
White	57,890	44	76.01	42,229	5	11.84	100,119	49	48.94
Black	8,587	6	69.87	6,000	1	*	14,587	7	47.99
Hispanic	48,401	8	16.53	39,672	1	*	88,073	9	10.22
Asian/Other	18,612	10	53.73	17,460	1	*	36,072	11	30.49
Subtotal	133,490	69	51.69	105,361	8	7.59	238,851	77	32.24
25-34									
White	108,761	53	48.73	95,237	6	6.30	203,998	59	28.92
Black	14,279	10	70.03	11,082	0	-	25,361	10	39.43
Hispanic	84,186	11	13.07	81,705	2	*	165,891	13	7.84
Asian/Other	34,148	3	*	37,049	0	-	71,197	3	*
Subtotal	241,374	78	32.31	225,073	8	3.55	466,447	86	18.44
35-44									
White	127,309	52	40.85	119,872	5	4.17	247,181	57	23.06
Black	14,733	3	*	12,555	0	-	27,288	3	*
Hispanic	59,714	8	13.40	63,936	1	*	123,650	9	7.28
Asian/Other	30,790	2	*	34,908	0	-	65,698	2	*
Subtotal	232,546	65	27.95	231,271	6	2.59	463,817	71	15.31
45-54									
White	125,423	56	44.65	124,568	6	4.82	249,991	62	24.80
Black	10,183	2	*	9,491	0	-	19,674	2	*
Hispanic	35,259	7	19.85	40,554	1	*	75,813	8	10.55
Asian/Other	24,651	2	*	29,312	0	-	53,963	2	*
Subtotal	195,516	68	34.78	203,925	7	3.43	399,441	75	18.78

* Rate not calculated on less than five incidents.

** Totals and subtotals include four with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

Table 5.9: Motorcycle Injuries by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	85,623	26	30.37	87,960	1	*	173,583	27	15.55
Black	4,841	0	-	5,255	0	-	10,096	0	-
Hispanic	16,858	1	*	21,402	1	*	38,260	2	*
Asian/Other	13,884	2	*	17,544	0	-	31,428	2	*
Subtotal	121,206	29	23.93	132,161	2	*	253,367	31	12.24
65-74									
White	51,841	3	*	57,869	0	-	109,710	3	*
Black	2,820	0	-	3,164	0	-	5,984	0	-
Hispanic	9,822	1	*	13,632	0	-	23,454	1	*
Asian/Other	8,628	0	-	12,690	0	-	21,318	0	-
Subtotal	73,111	4	*	87,355	0	-	160,466	4	*
75-84									
White	39,983	1	*	55,714	1	*	95,697	2	*
Black	1,261	0	-	1,765	0	-	3,026	0	-
Hispanic	5,397	0	-	7,788	0	-	13,185	0	-
Asian/Other	4,891	0	-	6,745	0	-	11,636	0	-
Subtotal	51,532	1	*	72,012	1	*	123,544	2	*
85+									
White	13,506	0	-	24,131	0	-	37,637	0	-
Black	320	0	-	675	0	-	995	0	-
Hispanic	1,327	1	*	2,466	0	-	3,793	1	*
Asian/Other	1,076	0	-	1,755	0	-	2,831	0	-
Subtotal	16,229	1	*	29,027	0	-	45,256	1	*
Total**	1,502,629	355	23.63	1,510,385	38	2.52	3,013,014	393	13.04

*Rate not calculated on less than five incidents.

** Totals and subtotals include four with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04. Population estimates, SANDAG.

Table 5.10: Pedalcycle Injuries by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	42,652	0	-	45,033	0	-	87,685	0	-
Black	6,233	0	-	5,950	0	-	12,183	0	-
Hispanic	41,424	1	*	41,303	0	-	82,727	1	*
Asian/Other	17,143	0	-	16,227	0	-	33,370	0	-
Subtotal	107,452	1	*	108,513	0	-	215,965	1	*
5-9									
White	40,169	6	14.94	41,910	1	*	82,079	7	8.53
Black	6,479	2	*	6,148	0	-	12,627	2	*
Hispanic	36,855	11	29.85	36,471	2	*	73,326	13	17.73
Asian/Other	16,062	0	-	15,086	0	-	31,148	0	-
Subtotal	99,565	20	20.09	99,615	3	*	199,180	23	11.55
10-14									
White	44,232	16	36.17	43,989	4	*	88,221	20	22.67
Black	7,153	1	*	6,929	1	*	14,082	2	*
Hispanic	44,741	14	31.29	42,432	3	*	87,173	17	19.50
Asian/Other	16,243	1	*	15,302	1	*	31,545	2	*
Subtotal	112,369	33	29.37	108,652	9	8.28	221,021	42	19.00
15-19									
White	51,046	8	15.67	46,105	1	*	97,151	9	9.26
Black	7,477	1	*	6,410	0	-	13,887	1	*
Hispanic	42,145	3	*	38,085	0	-	80,230	3	*
Asian/Other	17,571	2	*	16,820	0	-	34,391	2	*
Subtotal	118,239	14	11.84	107,420	1	*	225,659	15	6.65
20-24									
White	57,890	9	15.55	42,229	2	*	100,119	11	10.99
Black	8,587	0	-	6,000	0	-	14,587	0	-
Hispanic	48,401	2	*	39,672	0	-	88,073	2	*
Asian/Other	18,612	0	-	17,460	0	-	36,072	0	-
Subtotal	133,490	11	8.24	105,361	2	*	238,851	13	5.44
25-34									
White	108,761	7	6.44	95,237	5	5.25	203,998	12	5.88
Black	14,279	1	*	11,082	0	-	25,361	1	*
Hispanic	84,186	10	11.88	81,705	0	-	165,891	10	6.03
Asian/Other	34,148	1	*	37,049	0	-	71,197	1	*
Subtotal	241,374	20	8.29	225,073	5	2.22	466,447	25	5.36
35-44									
White	127,309	26	20.42	119,872	4	*	247,181	30	12.14
Black	14,733	1	*	12,555	0	-	27,288	1	*
Hispanic	59,714	6	10.05	63,936	0	-	123,650	6	4.85
Asian/Other	30,790	2	*	34,908	0	-	65,698	2	*
Subtotal	232,546	35	15.05	231,271	4	*	463,817	39	8.41
45-54									
White	125,423	19	15.15	124,568	4	*	249,991	23	9.20
Black	10,183	1	*	9,491	0	-	19,674	1	*
Hispanic	35,259	2	*	40,554	0	-	75,813	2	*
Asian/Other	24,651	0	-	29,312	0	-	53,963	0	-
Subtotal	195,516	22	11.25	203,925	5	2.45	399,441	27	6.76

*Rate not calculated on less than five incidents.

** Totals and subtotals include five with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04. Population estimates, SANDAG.

Table 5.10: Pedalcycle Injuries by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	85,623	12	14.01	87,960	2	*	173,583	14	8.07
Black	4,841	0	-	5,255	0	-	10,096	0	-
Hispanic	16,858	3	*	21,402	0	-	38,260	3	*
Asian/Other	13,884	0	-	17,544	0	-	31,428	0	-
Subtotal	121,206	16	13.20	132,161	2	*	253,367	18	7.10
65-74									
White	51,841	2	*	57,869	1	*	109,710	3	*
Black	2,820	0	-	3,164	0	-	5,984	0	-
Hispanic	9,822	0	-	13,632	0	-	23,454	0	-
Asian/Other	8,628	0	-	12,690	1	*	21,318	1	*
Subtotal	73,111	2	*	87,355	2	*	160,466	4	*
75-84									
White	39,983	0	-	55,714	0	-	95,697	0	-
Black	1,261	0	-	1,765	0	-	3,026	0	-
Hispanic	5,397	0	-	7,788	0	-	13,185	0	-
Asian/Other	4,891	0	-	6,745	0	-	11,636	0	-
Subtotal	51,532	0	-	72,012	0	-	123,544	0	-
85+									
White	13,506	0	-	24,131	0	-	37,637	0	-
Black	320	0	-	675	0	-	995	0	-
Hispanic	1,327	1	*	2,466	0	-	3,793	1	*
Asian/Other	1,076	0	-	1,755	0	-	2,831	0	-
Subtotal	16,229	1	*	29,027	0	-	45,256	1	*
Total	1,502,629	175	11.65	1,510,385	33	2.18	3,013,014	208	6.90

*Rate not calculated on less than five incidents.

** Totals and subtotals include five with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04. Population estimates, SANDAG.

Table 5.11: Pedestrian Injuries by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	42,652	3	*	45,033	0	-	87,685	3	*
Black	6,233	0	-	5,950	0	-	12,183	0	-
Hispanic	41,424	9	21.73	41,303	5	12.11	82,727	14	16.92
Asian/Other	17,143	0	-	16,227	0	-	33,370	0	-
Subtotal	107,452	12	11.17	108,513	5	4.61	215,965	17	7.87
5-9									
White	40,169	1	*	41,910	1	*	82,079	2	*
Black	6,479	1	*	6,148	0	-	12,627	1	*
Hispanic	36,855	10	27.13	36,471	5	13.71	73,326	15	20.46
Asian/Other	16,062	0	-	15,086	0	-	31,148	0	-
Subtotal	99,565	12	12.05	99,615	6	6.02	199,180	18	9.04
10-14									
White	44,232	3	*	43,989	2	*	88,221	5	5.67
Black	7,153	2	*	6,929	1	*	14,082	3	*
Hispanic	44,741	6	13.41	42,432	4	*	87,173	10	11.47
Asian/Other	16,243	1	*	15,302	4	*	31,545	5	15.85
Subtotal	112,369	13	11.57	108,652	11	10.12	221,021	24	10.86
15-19									
White	51,046	14	27.43	46,105	5	10.84	97,151	19	19.56
Black	7,477	0	-	6,410	0	-	13,887	0	-
Hispanic	42,145	3	*	38,085	2	*	80,230	5	6.23
Asian/Other	17,571	1	*	16,820	0	-	34,391	1	*
Subtotal	118,239	19	16.07	107,420	7	6.52	225,659	26	11.52
20-24									
White	57,890	8	13.82	42,229	3	*	100,119	11	10.99
Black	8,587	4	*	6,000	0	-	14,587	4	*
Hispanic	48,401	8	16.53	39,672	2	*	88,073	10	11.35
Asian/Other	18,612	0	-	17,460	0	-	36,072	0	-
Subtotal	133,490	20	14.98	105,361	5	4.75	238,851	25	10.47
25-34									
White	108,761	13	11.95	95,237	5	5.25	203,998	18	8.82
Black	14,279	2	*	11,082	2	*	25,361	4	*
Hispanic	84,186	9	10.69	81,705	5	6.12	165,891	14	8.44
Asian/Other	34,148	2	*	37,049	2	*	71,197	4	*
Subtotal	241,374	26	10.77	225,073	14	6.22	466,447	40	8.58
35-44									
White	127,309	17	13.35	119,872	6	5.01	247,181	23	9.30
Black	14,733	2	*	12,555	3	*	27,288	5	18.32
Hispanic	59,714	8	13.40	63,936	7	10.95	123,650	15	12.13
Asian/Other	30,790	1	*	34,908	2	*	65,698	3	*
Subtotal	232,546	28	12.04	231,271	18	7.78	463,817	46	9.92
45-54									
White	125,423	21	16.74	124,568	3	*	249,991	24	9.60
Black	10,183	3	*	9,491	0	-	19,674	3	*
Hispanic	35,259	9	25.53	40,554	6	14.80	75,813	15	19.79
Asian/Other	24,651	2	*	29,312	1	*	53,963	3	*
Subtotal	195,516	36	18.41	203,925	10	4.90	399,441	46	11.52

* Rate not calculated on less than five incidents.

** Totals and subtotals include three with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

Table 5.11: Pedestrian Injuries by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	85,623	9	10.51	87,960	7	7.96	173,583	16	9.22
Black	4,841	2	*	5,255	1	*	10,096	3	*
Hispanic	16,858	7	41.52	21,402	4	*	38,260	11	28.75
Asian/Other	13,884	2	*	17,544	2	*	31,428	4	*
Subtotal	121,206	20	16.50	132,161	14	10.59	253,367	34	13.42
65-74									
White	51,841	10	19.29	57,869	4	*	109,710	14	12.76
Black	2,820	1	*	3,164	0	-	5,984	1	*
Hispanic	9,822	4	*	13,632	2	*	23,454	6	25.58
Asian/Other	8,628	5	57.95	12,690	4	*	21,318	9	42.22
Subtotal	73,111	20	27.36	87,355	10	11.45	160,466	30	18.70
75-84									
White	39,983	1	*	55,714	7	17.51	95,697	8	8.36
Black	1,261	1	*	1,765	0	-	3,026	1	*
Hispanic	5,397	3	*	7,788	1	*	13,185	4	*
Asian/Other	4,891	2	*	6,745	2	*	11,636	4	*
Subtotal	51,532	7	13.58	72,012	10	19.41	123,544	17	13.76
85+									
White	13,506	2	*	24,131	0	-	37,637	2	*
Black	320	0	-	675	0	-	995	0	-
Hispanic	1,327	2	*	2,466	0	-	3,793	2	*
Asian/Other	1,076	0	-	1,755	0	-	2,831	0	-
Subtotal	16,229	4	*	29,027	0	-	45,256	4	*
Total**	1,502,629	217	14.44	1,510,385	110	7.28	3,013,014	327	10.85

* Rate not calculated on less than five incidents.

** Totals and subtotals include three with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

Who is at Greatest Risk of Other Unintentional Death and Injury (Rates = Number per 100,000 Population)

- **Severe Injuries due to Falls:** The highest rates of severe injuries from falls were seen in the oldest age groups. White males (311.0) and females (269.4) aged 85 and older had the highest injury rates from falls.
- **Deaths due to falls:** Due to the low number of deaths due to falls, rates could only be calculated for White men aged 35-44 (3.9), 45-54 (8.0), 55-64 (9.3), 65-74 (9.6), 75-84 (70.0), 85+ (140.7), and for White women aged 45-54 (4.0), 75-84 (62.5), and 85 and older (70.5). **No table appears.**
- **Severe Injury due to Sports and Recreation:** The highest rates of Sports/Recreation injury were in White males 10-14 years (65.6), and 20-24 years (57.0).
- **Death due to Sports and Recreation:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**

Table 5.12: Fall Injuries by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	42,652	11	25.79	45,033	14	31.09	87,685	25	28.51
Black	6,233	0	-	5,950	2	*	12,183	2	*
Hispanic	41,424	31	74.84	41,303	17	41.16	82,727	48	58.02
Asian/Other	17,143	8	46.67	16,227	3	*	33,370	11	32.96
Subtotal	107,452	52	48.39	108,513	37	34.10	215,965	89	41.21
5-9									
White	40,169	10	24.89	41,910	5	11.93	82,079	15	18.28
Black	6,479	3	*	6,148	1	*	12,627	4	*
Hispanic	36,855	13	35.27	36,471	4	*	73,326	17	23.18
Asian/Other	16,062	1	*	15,086	1	*	31,148	2	*
Subtotal	99,565	27	27.12	99,615	11	11.04	199,180	38	19.08
10-14									
White	44,232	6	13.56	43,989	4	*	88,221	10	11.34
Black	7,153	0	-	6,929	0	-	14,082	0	-
Hispanic	44,741	6	13.41	42,432	2	*	87,173	8	9.18
Asian/Other	16,243	1	*	15,302	1	*	31,545	2	*
Subtotal	112,369	14	12.46	108,652	7	6.44	221,021	21	9.50
15-19									
White	51,046	13	25.47	46,105	6	13.01	97,151	19	19.56
Black	7,477	1	*	6,410	0	-	13,887	1	*
Hispanic	42,145	18	42.71	38,085	3	*	80,230	21	26.17
Asian/Other	17,571	3	*	16,820	0	-	34,391	3	*
Subtotal	118,239	35	29.60	107,420	9	8.38	225,659	44	19.50
20-24									
White	57,890	26	44.91	42,229	8	18.94	100,119	34	33.96
Black	8,587	1	*	6,000	0	-	14,587	1	*
Hispanic	48,401	18	37.19	39,672	3	*	88,073	21	23.84
Asian/Other	18,612	4	*	17,460	0	-	36,072	4	*
Subtotal	133,490	50	37.46	105,361	11	10.44	238,851	61	25.54
25-34									
White	108,761	35	32.18	95,237	13	13.65	203,998	48	23.53
Black	14,279	0	-	11,082	2	*	25,361	2	*
Hispanic	84,186	38	45.14	81,705	8	9.79	165,891	46	27.73
Asian/Other	34,148	2	*	37,049	3	*	71,197	5	7.02
Subtotal	241,374	77	31.90	225,073	26	11.55	466,447	103	22.08
35-44									
White	127,309	60	47.13	119,872	15	12.51	247,181	75	30.34
Black	14,733	9	61.09	12,555	2	*	27,288	11	40.31
Hispanic	59,714	36	60.29	63,936	4	*	123,650	40	32.35
Asian/Other	30,790	4	*	34,908	1	*	65,698	5	7.61
Subtotal	232,546	111	47.73	231,271	22	9.51	463,817	133	28.68
45-54									
White	125,423	86	68.57	124,568	24	19.27	249,991	110	44.00
Black	10,183	5	49.10	9,491	4	*	19,674	9	45.75
Hispanic	35,259	35	99.27	40,554	5	12.33	75,813	40	52.76
Asian/Other	24,651	4	*	29,312	1	*	53,963	5	9.27
Subtotal	195,516	132	67.51	203,925	34	16.67	399,441	166	41.56

* Rate not calculated on less than five incidents.

** Totals and subtotals include 22 with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

Table 5.12: Fall Injuries by Age Group, Race/Ethnicity and Gender (Continued)

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	85,623	73	85.26	87,960	22	25.01	173,583	95	54.73
Black	4,841	1	*	5,255	1	*	10,096	2	*
Hispanic	16,858	15	88.98	21,402	7	32.71	38,260	22	57.50
Asian/Other	13,884	1	*	17,544	2	*	31,428	3	*
Subtotal	121,206	90	74.25	132,161	34	25.73	253,367	124	48.94
65-74									
White	51,841	59	113.81	57,869	29	50.11	109,710	88	80.21
Black	2,820	3	*	3,164	1	*	5,984	4	*
Hispanic	9,822	20	203.62	13,632	11	80.69	23,454	31	132.17
Asian/Other	8,628	7	81.13	12,690	3	*	21,318	10	46.91
Subtotal	73,111	89	121.73	87,355	46	52.66	160,466	135	84.13
75-84									
White	39,983	71	177.58	55,714	88	220.09	95,697	159	166.15
Black	1,261	1	*	1,765	1	*	3,026	2	*
Hispanic	5,397	11	203.82	7,788	11	203.82	13,185	22	166.86
Asian/Other	4,891	11	224.90	6,745	6	122.67	11,636	17	146.10
Subtotal	51,532	96	186.29	72,012	109	211.52	123,544	205	165.93
85+									
White	13,506	42	310.97	24,131	65	269.36	37,637	107	284.29
Black	320	1	*	675	1	*	995	2	*
Hispanic	1,327	2	*	2,466	2	*	3,793	4	*
Asian/Other	1,076	2	*	1,755	0	-	2,831	2	*
Subtotal	16,229	47	289.61	29,027	69	237.71	45,256	116	256.32
Total**	1,502,629	821	54.57	1,510,385	415	27.48	3,013,014	1,236	40.99

* Rate not calculated on less than five incidents.

** Totals and subtotals include 22 with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

Table 5.13: Sports/Recreation Injuries by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	42,652	3	*	45,033	5	11.10	87,685	8	9.12
Black	6,233	0	-	5,950	0	-	12,183	0	-
Hispanic	41,424	2	*	41,303	6	14.53	82,727	8	9.67
Asian/Other	17,143	0	-	16,227	0	-	33,370	0	-
Subtotal	107,452	5	4.65	108,513	11	10.14	215,965	16	7.41
5-9									
White	40,169	7	17.43	41,910	5	11.93	82,079	12	14.62
Black	6,479	1	*	6,148	0	-	12,627	1	*
Hispanic	36,855	10	27.13	36,471	5	13.71	73,326	15	20.46
Asian/Other	16,062	3	*	15,086	0	-	31,148	3	*
Subtotal	99,565	21	21.09	99,615	10	10.04	199,180	31	15.56
10-14									
White	44,232	29	65.56	43,989	6	13.64	88,221	35	39.67
Black	7,153	0	-	6,929	1	*	14,082	1	*
Hispanic	44,741	13	29.06	42,432	3	*	87,173	16	18.35
Asian/Other	16,243	6	36.94	15,302	2	*	31,545	8	25.36
Subtotal	112,369	49	43.61	108,652	12	11.04	221,021	61	27.60
15-19									
White	51,046	28	54.85	46,105	3	*	97,151	31	31.91
Black	7,477	1	*	6,410	0	-	13,887	1	*
Hispanic	42,145	6	14.24	38,085	1	*	80,230	7	8.72
Asian/Other	17,571	1	*	16,820	1	*	34,391	2	*
Subtotal	118,239	37	31.29	107,420	6	5.59	225,659	43	19.06
20-24									
White	57,890	33	57.00	42,229	3	*	100,119	36	35.96
Black	8,587	1	*	6,000	0	-	14,587	1	*
Hispanic	48,401	7	14.46	39,672	2	*	88,073	9	10.22
Asian/Other	18,612	0	-	17,460	1	*	36,072	1	*
Subtotal	133,490	42	31.46	105,361	6	5.69	238,851	48	20.10
25-34									
White	108,761	35	32.18	95,237	6	6.30	203,998	41	20.10
Black	14,279	0	-	11,082	0	-	25,361	0	-
Hispanic	84,186	19	22.57	81,705	1	*	165,891	20	12.06
Asian/Other	34,148	2	*	37,049	1	*	71,197	3	*
Subtotal	241,374	57	23.61	225,073	8	3.55	466,447	65	13.94
35-44									
White	127,309	35	27.49	119,872	10	8.34	247,181	45	18.21
Black	14,733	1	*	12,555	0	-	27,288	1	*
Hispanic	59,714	6	10.05	63,936	1	*	123,650	7	5.66
Asian/Other	30,790	0	-	34,908	0	-	65,698	0	-
Subtotal	232,546	44	18.92	231,271	11	4.76	463,817	55	11.86
45-54									
White	125,423	24	19.14	124,568	19	15.25	249,991	43	17.20
Black	10,183	0	-	9,491	0	-	19,674	0	-
Hispanic	35,259	3	*	40,554	1	*	75,813	4	*
Asian/Other	24,651	3	*	29,312	0	-	53,963	3	*
Subtotal	195,516	31	15.86	203,925	20	9.81	399,441	51	12.77

* Rate not calculated on less than five incidents.

** Totals and subtotals include eight with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

**Table 5.13: Sports/Recreation Injuries by Age Group, Race/Ethnicity and Gender
(Continued)**

	Males			Females			Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	85,623	10	11.68	87,960	3	*	173,583	13	7.49
Black	4,841	0	-	5,255	0	-	10,096	0	-
Hispanic	16,858	0	-	21,402	0	-	38,260	0	-
Asian/Other	13,884	1	*	17,544	0	-	31,428	1	*
Subtotal	121,206	11	9.08	132,161	3	*	253,367	14	5.53
65-74									
White	51,841	4	*	57,869	1	*	109,710	5	4.56
Black	2,820	0	-	3,164	0	-	5,984	0	-
Hispanic	9,822	0	-	13,632	0	-	23,454	0	-
Asian/Other	8,628	0	-	12,690	0	-	21,318	0	-
Subtotal	73,111	4	*	87,355	1	*	160,466	5	3.12
75-84									
White	39,983	1	*	55,714	0	-	95,697	1	*
Black	1,261	0	-	1,765	0	-	3,026	0	-
Hispanic	5,397	0	-	7,788	0	-	13,185	0	-
Asian/Other	4,891	0	-	6,745	0	-	11,636	0	-
Subtotal	51,532	1	*	72,012	0	-	123,544	1	*
85+									
White	13,506	1	*	24,131	0	-	37,637	1	*
Black	320	0	-	675	0	-	995	0	-
Hispanic	1,327	0	-	2,466	0	-	3,793	0	-
Asian/Other	1,076	0	-	1,755	0	-	2,831	0	-
Subtotal	16,229	1	*	29,027	0	-	45,256	1	*
Total**	1,502,629	303	20.16	1,510,385	88	5.83	3,013,014	391	12.98

* Rate not calculated on less than five incidents.

** Totals and subtotals include eight with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2003/04; Population Estimates, SANDAG

Abbreviated Injury Scale (AIS): A scale created to describe individual traumatic injuries. AIS scores obtain a value from each of 6 body areas: 1) head or neck; 2) face; 3) chest; 4) abdomen/pelvic contents; 5) extremities/pelvic girdle; and 6) external. For each body region a severity code is assigned which describes the injuries: 1) minor; 2) moderate; 3) serious; 4) severe; 5) critical; 6) maximum injury with little chance of survival, and 9) unknown.

Confidence Level (95%): Statistical measure used when comparing the differences between a set of numbers to determine if they are statistically significant or not. A 95% confidence level was used in this report ($p < .05$), therefore you could say that there was less than a five percent chance that the differences were due to chance if they were reported as statistically significant.

Geographic Areas: The geographic areas used in the analysis of the data are the Major Statistical Areas (MSA) and the subregional areas (SRA) of San Diego County as defined by the San Diego Association of Governments (SANDAG). See Appendix D.

Mechanism of Injury: This report is based on classifications of injury etiology as follows:

Motor Vehicle Occupant	driver or passenger, not motorcycle
Motorcycle	driver or passenger of motorcycle/moped
Pedalcycle	pedalcyclist, traffic or non-traffic
Pedestrian	person involved in a motor vehicle collision who was on foot, or in or operating a pedestrian conveyance, e.g., baby carriage, roller skates, wheelchair, scooter, skateboard.
Other vehicle	railway accident motor vehicle other or unknown other road vehicle aircraft other vehicle
Falls	fall, steps fall, ladder/scaffold fall, structure fall, into hole/swimming pool, etc. fall, cliff fall from standing (must be witnessed) other fall/unknown
Self Inflicted/Suicides	suicide attempt (hanging, suffocation) self inflicted firearms/ explosive self inflicted cutting/piercing self inflicted jump from high place

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	self inflicted suicide attempt, other
Assaults/Homicides	fall, pushed from vehicle assault, unarmed fight, brawl, etc. rape assault by firearm/explosive assault by cutting/piercing child battering other assault/suspected non-accidental assault by multiple causes (firearms/stabbing/etc.)
Sports & Recreation Activities	scooter/skateboard/carriage/snow skier off road vehicle riding animals water sports sports (hit, kicked or struck) fall from tree/playground equipment
Other	dog bite injured by animal, not dog bite struck by falling object struck by machinery/object (caught, crushed, cut, etc.) cutting instruments (lawn mowers, power tools, appliances, knives, swords, saws, glass) explosion of pressure vessel BB/pellet gun (assault and accidental) bow/cross bow (assault and accidental) firearms (accident, not assault) explosive material (fireworks, gas, bomb, accident) hot substance, caustic, steam electric current cave in (dirt, structures) other unspecified accident legal intervention
Unknown	mechanism left blank or "unknown". undetermined intent of injury

Incidence: The number of occurrences for the specific injury type. Incidence should not be used to compare different racial/ethnic groups, age groups or geographic areas. For these comparisons, use rates which take into account differences in population sizes.

Injury: For the purposes of this report injury refers to unintentional or intentional damage to the body resulting from acute exposure to mechanical energy.

Injury Severity Score (ISS): A modification of the AIS, the ISS is an anatomic score developed to identify multiple traumatic injuries. The ISS is obtained by calculating the sum of the squared values of the highest AIS code in each of the three most severely injured regions of the body. AIS scores up to 5 are squared, so that the highest ISS attainable is 75. An AIS score of 6 in any body region is assigned as ISS of 75.

Race/Ethnicity: Race/ethnicity is calculated for this report as Hispanic, non-Hispanic White, non-Hispanic Black, non-Hispanic Asian/Other based on SANDAG estimates of population for January 2001.

Rate: Calculated as incidence per 100,000 population. Rates were calculated using January 2001 population estimates provided by the San Diego Association of Governments (SANDAG). Rates were not calculated for categories with less than five occurrences, due to instability.

$$\text{Rate} = (\text{Incidence/Population}) \times 100,000$$

SANDAG: San Diego Association of Governments.

Scene Time: The total time the patient was not actually being transported to either the receiving hospital or the rendezvous point (reflects the total time an ambulance spends on scene).

Source of Data: All incidence data is from the San Diego County Trauma Registry. This data includes both deaths and severe traumatic injuries. To be included in the trauma registry a patient must suffer from a traumatic injury and: have a length of stay in the hospital greater than or equal to 24 hours; be an interfacility transfer from or to an acute care facility; or die from the injury. A patient who dies of a traumatic injury on scene, at a non-trauma facility, or at a trauma center is included in the Medical Examiner's database.

Statistical Significance: A number is said to be statistically significant if it is "significantly" larger or smaller than would be expected by chance. For this report statistical significance is measured using a 95% confidence level, meaning that with 95% certainty you can say that the numbers did not occur by chance, giving us a statistical significance of $p < .05$.

Trauma Center Monthly Reports: Summary reports submitted to EMS by each designated trauma center hospital. These forms are intended to serve as a record of the hospital's trauma service activity for that month. This activity includes admissions, discharges, deaths, mode of arrival and final dispositions.

Years Potential Life Lost (YPLL): YPLL calculates the years of life lost due to a death using the average life expectancy as an estimate for the total length of life. Life expectancy was derived from the Vital Statistics Life Tables (Centers for Disease Control and Prevention). For age groups, YPLL was calculated using the life expectancy for the median age for the group. $\text{YPLL} = (\text{Expected years of life} - \text{median age}) \times \text{Number of deaths}$

Technical Notes

Table A.1: Leading Causes of Death and Severe Injury by San Diego MSA

MSA	Rank	Death	Rank	Severe Injury
Central	1	Homicide	1	Assaults
	2	Suicide	2	Fall
	3	Fall	3	MV Occupant
North City	1	Suicide	1	Fall
	2	Fall	2	MV Occupant
	3	MV Occupant	3	Assaults
South Suburban	1	Suicide	1	MV Occupant
	2	MV Occupant	2	Fall
	3	Homicide	3	Assault
East Suburban	1	Suicide	1	MV Occupant
	2	MV Occupant	2	Fall
	3	Fall	3	Assault
North County West	1	MV Occupant	1	MV Occupant
	2	Suicide	2	Fall
	3	Fall	3	Assault
North County East	1	MV Occupant	1	Fall
	2	Suicide	2*	MV Occupant; Assaults
	3	Fall		
East County	1	MV Occupant	1	Sport/Rec
	2	Suicide	2*	Fall; MV Occupant; Motorcycle
	3*	Pedestrian/Other Vehicle		

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2003/04

* Indicates a tie

Table A.2: Leading Causes of Death and Severe Injury by Age Group

Age Group in Years	Rank	Death	Rank	Severe Injury
0-4	1	MV Occupant; Homicide; Pedestrian; Other Vehicle	1	Falls
			2	Assaults
			3	MV Occupant
5-9	1*	Pedalcycle MV Occupant	1	Falls
			2	MV Occupant
			3	Sport/Rec
10-14	1*	MV Occupant; Homicide	1	Sport/Rec
			2	MV Occupant
	2	Pedalcycle	3	Pedalcycle
15-19	1	MV Occupant	1	MV Occupant
	2	Homicide	2	Assaults
	3	Suicide	3	Falls
20-24	1	MV Occupant	1	MV Occupant
	2	Homicide	2	Assault
	3	Suicide	3	Motorcycle
25-34	1	Homicide	1	MV Occupant
	2	MV Occupant	2	Assault
	3	Suicide	3	Falls
35-44	1	Suicide	1	MV Occupant
	2	MV Occupant	2	Assaults
	3	Homicide	3	Falls
45-54	1	Suicide	1	MV Occupant
	2*	MV Occupant; Homicide	2	Falls
			3	Assaults
55-64	1	Suicide	1	MV Occupant
	2	Falls	2	Falls
	3	MV Occupant	3	Pedestrian
65-74	1	Suicide	1	Falls
	2	Falls	2	MV Occupant
	3	MV Occupant	3	Pedestrian
75-84	1	Falls	1	Falls
	2	Suicide	2	MV Occupant
	3	MV Occupant	3	Pedestrian
85+	1	Falls	1	Falls
	2	Suicide	2	MV Occupant
	3	MV Occupant	3*	Pedestrian; Other Vehicle

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2003/04

* Indicates a tie.

Table B.1: Transportation Related Injuries and Deaths by Mechanism and San Diego County Subregional Area

MSA	SRA	Population	MV Occupant		Motorcycle		Pedalcycle	
			Injury	Death	Injury	Death	Injury	Death
CENTRAL	Central San Diego	162,430	50	5	10	2	11	1
	Peninsula	61,890	0	1	0	0	1	1
	Coronado	26,591	4	0	1	1	0	0
	National City	55,954	18	3	1	1	1	0
	Southeast San Diego	159,852	29	3	4	0	0	0
	Mid-City	170,610	37	2	8	0	4	1
	TOTAL	637,327	138	14	24	4	17	3
NORTH CITY	Kearny Mesa	150,322	30	10	7	2	3	2
	Coastal	77,696	13	2	4	1	7	0
	University	55,526	1	4	0	1	0	0
	Del Mar-Mira Mesa	150,431	15	3	5	3	2	1
	North San Diego	97,145	1	2	0	0	1	0
	Poway	88,804	5	3	1	2	1	0
	Miramar	7,403	0	1	0	0	1	0
	Elliott-Navajo	89,788	2	1	1	1	0	0
	TOTAL	717,115	67	26	18	10	15	3
SOUTH SUBURBAN	Sweetwater	104,548	22	2	6	0	0	0
	Chula Vista	111,982	18	7	5	1	0	0
	South Bay	136,685	23	4	10	2	1	1
	TOTAL	353,215	63	13	21	3	1	1
EAST SUBURBAN	Jamul	14,314	15	3	3	1	0	0
	Spring Valley	81,514	13	5	2	0	3	0
	Lemon Grove	29,926	14	0	3	0	1	0
	La Mesa	58,033	5	3	2	3	0	0
	El Cajon	122,695	11	6	1	3	2	0
	Santee	52,611	1	0	0	0	0	0
	Lakeside	55,859	6	7	1	2	0	0
	Harbison Crest	14,800	3	5	1	1	0	1
	Alpine	14,925	3	4	0	3	2	0
	Ramona	34,907	1	4	1	4	1	0
	TOTAL	479,584	72	37	14	17	9	1
NORTH COUNTY WEST	San Dieguito	91,126	10	1	4	0	1	0
	Carlsbad	106,351	31	10	5	0	3	0
	Oceanside	163,180	68	12	20	0	0	2
	Pendleton	35,527	11	2	3	1	1	0
	TOTAL	396,184	120	25	32	1	5	2
NORTH COUNTY EAST	Escondido	154,591	2	13	0	3	1	1
	San Marcos	79,376	1	2	1	0	0	0
	Vista	100,382	4	4	0	0	1	0
	Valley Center	20,754	1	4	0	1	0	0
	Pauma	6,878	0	2	0	0	0	0
	Fallbrook	47,403	1	12	0	2	0	0
	TOTAL	409,384	9	37	1	6	2	1
EAST COUNTY	Palomar-Julian	5,853	0	4	1	0	0	1
	Laguna-Pine Valley	5,023	0	0	0	0	0	0
	Mountain Empire	6,023	3	8	1	0	1	0
	Anza-Borrego Springs	3,306	0	2	1	1	0	0
	TOTAL	20,205	3	14	3	1	1	1
OTHER/UNKNOWN			1112	15	280	0	158	0
TOTAL			3,013,014	1,584	393	42	208	12

Source: County of San Diego. Health and Human Services, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04; Population Estimates, SANDAG

Appendix B

Table B.1: Transportation Related Injuries and Deaths by Mechanism and San Diego County Subregional Area (Continued)

MSA	SRA	Population	Pedestrian		Other Vehicle		Overall Total
			Injury	Death	Injury	Death	
CENTRAL	CentralSanDiego	162,430	24	12	7	1	123
	Peninsula	61,890	1	2	1	0	7
	Coronado	26,591	0	1	0	0	7
	NationalCity	55,954	3	0	0	0	27
	SoutheastSanDiego	159,852	8	4	6	1	55
	Mid-City	170,610	21	4	3	0	80
	TOTAL	637,327	57	23	17	2	299
NORTH CITY	KearnyMesa	150,322	3	4	1	0	62
	Coastal	77,696	13	4	6	0	50
	University	55,526	0	0	0	0	6
	DelMar-MiraMesa	150,431	6	7	7	0	49
	NorthSanDiego	97,145	1	1	0	0	6
	Poway	88,804	0	0	1	0	13
	Miramar	7,403	0	0	0	0	2
	Elliott-Navajo	89,788	3	2	0	0	10
	TOTAL	717,115	26	18	15	0	198
SOUTH SUBURBAN	Sweetwater	104,548	1	0	3	0	34
	ChulaVista	111,982	7	4	1	0	43
	SouthBay	136,685	1	2	1	0	45
	TOTAL	353,215	9	6	5	0	122
EAST SUBURBAN	Jamul	14,314	2	0	1	1	26
	SpringValley	81,514	2	1	2	2	30
	LemonGrove	29,926	2	0	0	0	20
	LaMesa	58,033	0	1	2	0	16
	ElCajon	122,695	0	3	1	1	28
	Santee	52,611	0	0	0	1	2
	Lakeside	55,859	2	0	1	0	19
	HarbisonCrest	14,800	0	2	0	0	13
	Alpine	14,925	1	0	0	1	14
	Ramona	34,907	0	0	0	1	12
	TOTAL	479,584	9	7	7	7	180
NORTH COUNTY WEST	SanDieguito	91,126	7	3	3	0	29
	Carlsbad	106,351	1	0	1	0	51
	Oceanside	163,180	14	5	6	1	128
	Pendleton	35,527	1	0	0	0	19
	TOTAL	396,184	23	8	10	1	227
NORTH COUNTY EAST	Escondido	154,591	0	4	1	1	26
	SanMarcos	79,376	0	0	0	0	4
	Vista	100,382	1	3	0	2	15
	ValleyCenter	20,754	0	0	0	2	8
	Pauma	6,878	0	1	0	0	3
	Fallbrook	47,403	0	4	1	1	21
	TOTAL	409,384	1	12	2	6	77
EAST COUNTY	Palomar-Julian	5,853	0	0	0	0	6
	Laguna-PineValley	5,023	0	0	0	0	0
	MountainEmpire	6,023	0	2	0	0	15
	Anza-BorregoSprings	3,306	0	0	1	2	7
	TOTAL	20,205	0	2	1	2	28
OTHER/UNKNOWN			202	2	155	5	1,929
TOTAL		3,013,014	327	78	212	23	3,060

Source: County of San Diego. Health and Human Services, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2003/04; Population Estimates, SANDAG

**Table C.1: San Diego County Population Breakdown
by Age Group, Gender and Race/Ethnicity
January 1, 2004**

		Males	Females	Total
Under 5	White	42,652	45,033	87,685
	Black	6,233	5,950	12,183
	Hispanic	41,424	41,303	82,727
	Asian/Other	17,143	16,227	33,370
5 to 9	White	40,169	41,910	82,079
	Black	6,479	6,148	12,627
	Hispanic	36,855	36,471	73,326
	Asian/Other	16,062	15,086	31,148
10 to 14	White	44,232	43,989	88,221
	Black	7,153	6,929	14,082
	Hispanic	44,741	42,432	87,173
	Asian/Other	16,243	15,302	31,545
15 to 19	White	51,046	46,105	97,151
	Black	7,477	6,410	13,887
	Hispanic	42,145	38,085	80,230
	Asian/Other	17,571	16,820	34,391
20 to 24	White	57,890	42,229	100,119
	Black	8,587	6,000	14,587
	Hispanic	48,401	39,672	88,073
	Asian/Other	18,612	17,460	36,072
25-34	White	108,761	95,237	203,998
	Black	14,279	11,082	25,361
	Hispanic	84,186	81,705	165,891
	Asian/Other	34,148	37,049	71,197
35-44	White	127,309	119,872	247,181
	Black	14,733	12,555	27,288
	Hispanic	59,714	63,936	123,650
	Asian/Other	30,790	34,908	65,698
45-54	White	125,423	124,568	249,991
	Black	10,183	9,491	19,674
	Hispanic	35,259	40,554	75,813
	Asian/Other	24,651	29,312	53,963
55-64	White	85,623	87,960	173,583
	Black	4,841	5,255	10,096
	Hispanic	16,858	21,402	38,260
	Asian/Other	13,884	17,544	31,428
65-74	White	51,841	57,869	109,710
	Black	2,820	3,164	5,984
	Hispanic	9,822	13,632	23,454
	Asian/Other	8,628	12,690	21,318
75-84	White	39,983	55,714	95,697
	Black	1,261	1,765	3,026
	Hispanic	5,397	7,788	13,185
	Asian/Other	4,891	6,745	11,636
85+	White	13,506	24,131	37,637
	Black	320	675	995
	Hispanic	1,327	2,466	3,793
	Asian/Other	1,076	1,755	2,831
Total		1,502,629	1,510,385	3,013,014

Source: San Diego Association of Governments (SANDAG)

Figure D.1:
San Diego County
Major Statistical Areas

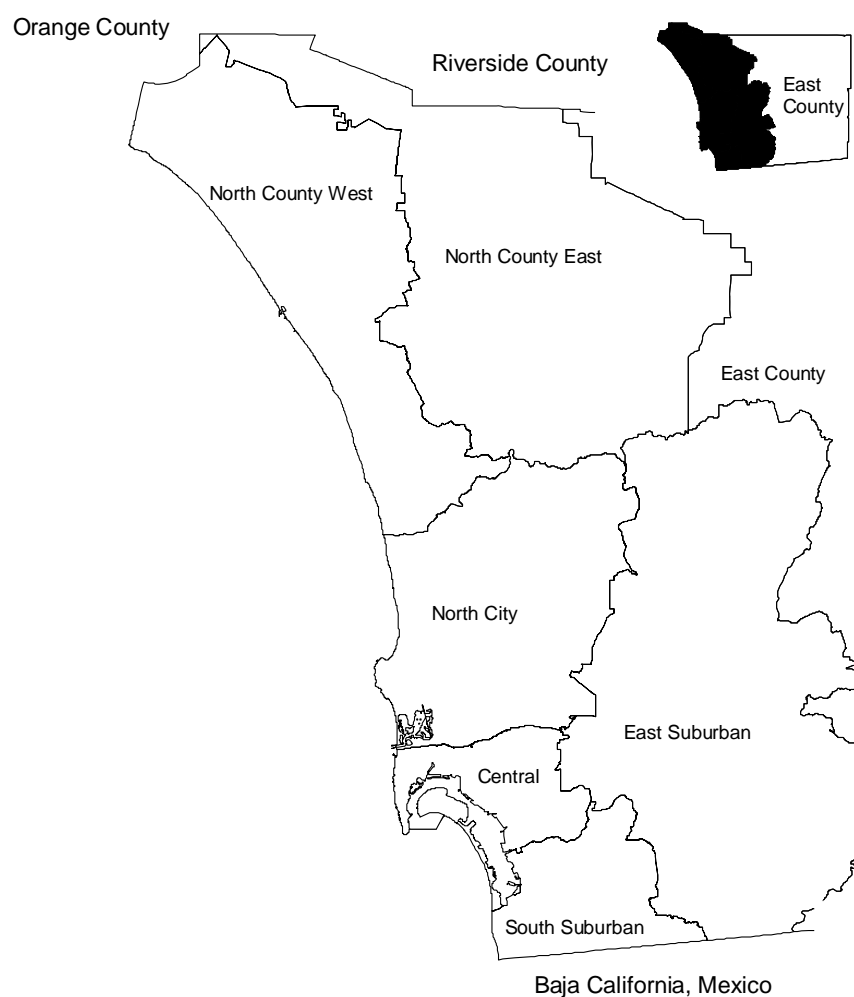
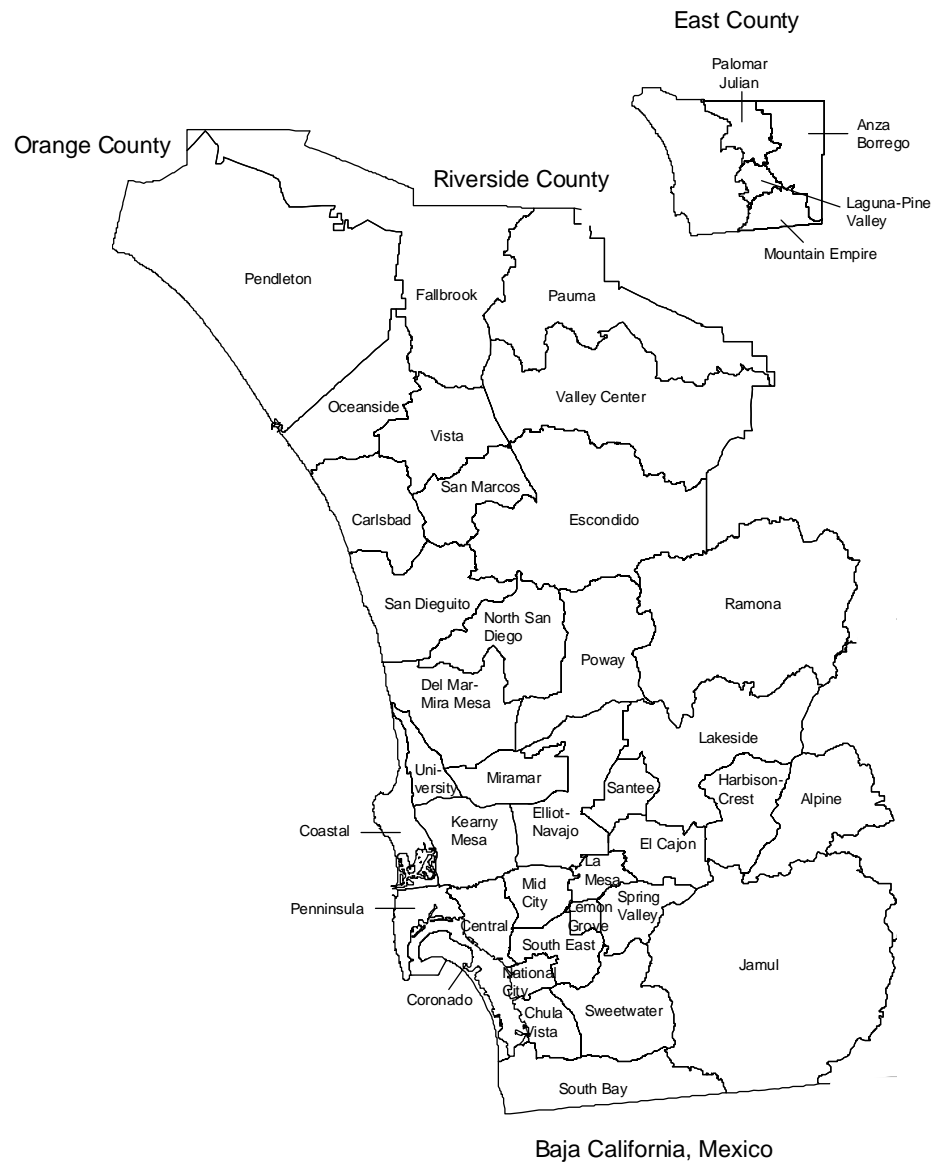


Figure D.2: San Diego County
Subregional Areas



DIRECTORY

EMS AGENCY

6255 Mission Gorge Road, San Diego, CA. 92120 - (619) 285-6429

Interim Medical Director: Bruce Haynes, MD

EMS Coordinator: Patricia Murrin, RN, MPH

QA Specialist – Trauma: Les Gardina, RN, MSN

CHILDREN'S HOSPITAL AND HEALTH CENTER

3020 Childrens Way, San Diego, CA 92123 - (858) 576-1700

Hospital Administrator: Blair Sadler, CEO

Trauma Administrator: Irvin Kaufman, MD

Trauma Medical Director: Barry LoSasso, MD, FACS

Trauma Nurse Coordinator: Sue Cox, RN, MS

SCRIPPS MERCY HOSPITAL

4077 Fifth Avenue, San Diego, CA 92103 - (619) 294-8111

Hospital Administrator: Tom Gammiere

Associate Administrator: Leanne Hunstock, RN

Trauma Medical Director: Michael J. Sise, MD, FACS

Trauma Nurse Coordinator: Dorothy M. Kelley, MSN, RN, CEN

Base Hospital Medical Director: Steven Zahler, MD, FACEP

Base Hospital Nurse Coordinator: Monica Norris, RN.

Appendix E

PALOMAR MEDICAL CENTER

555 East Valley Parkway, Escondido, CA 92025- (760) 739-3000

Hospital Administrator: Gerald Bracht

Trauma Administrator: Kim Colonnelli, RN, MSN,

Trauma Medical Director: Tom Velky, MD, FACS

Trauma Nurse Coordinator: Peggy Sale, RN

Base Hospital Medical Director: Michelle Grad, MD

Base Hospital Nurse Coordinator: Cheryl Graydon, RN, MICN

SCRIPPS MEMORIAL HOSPITAL, LA JOLLA

9888 Genesee Avenue, La Jolla, CA 92037 - (858) 457-4123

Hospital Administrator: Gary Fybel

Trauma Administrator: Cynthia Steckel, RN

Trauma Medical Director: Fred Simon, MD, FACS

Trauma Nurse Coordinator: Cheryl Wooten, RN, MSN, CNS

Base Hospital Medical Director: Lisa Morikado, MD

Base Hospital Nurse Coordinator: Linda Broyles, RN, MSN, MICN

SHARP MEMORIAL HOSPITAL

7901 Frost Street, San Diego, CA 92123 - (858) 541-3400

Hospital Administrator: Daniel Gross, RN, CEO

Trauma Administrator: Janie Kramer, RN, Vice President

Trauma Medical Director: Frank Kennedy, MD, FACS

Trauma Nurse Coordinator: Kathi Ayers, RN, MSN

Base Hospital Medical Director: Mark Kramer, MD

Base Hospital Nurse Coordinator: Linda Rosenberg, RN

UNIVERSITY OF CALIFORNIA, SAN DIEGO MEDICAL CENTER

200 West Arbor Drive, San Diego, CA 92103 - (619) 543-6222

Hospital Administrator: Richard J. Liekweg, CAO

Trauma Administrator: Richard J. Liekweg, CAO

Trauma Medical Director: David Hoyt, MD, FACS

Trauma Nurse Coordinator: Vicki Bennett, RN

Base Hospital Medical Director: Dan Davis, MD

Base Hospital Nurse Coordinator: Melody Dotson, RN, MICN

SHARP / GROSSMONT HOSPITAL

5555 Grossmont Center Drive, La Mesa, CA 91942 - (619) 465-0711

Hospital Administrator: Michele Tarbet, CEO

Base Hospital Medical Director: William Linnick, MD

Base Hospital Nurse Coordinator: Mary Meadows-Pitt, RN, BSN, MICN

TRI-CITY MEDICAL CENTER

4002 Vista Way, Oceanside, CA 92056 - (760) 724-8411

Hospital Administrator: Arthur Gonzalez

Base Hospital Medical Director: Todd Zaayer, MD

Base Hospital Nurse Coordinator: Susan Rainey, RN, MICN